

AAAAAA AA AA AA AA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
	\$			

AED VO4

AED VO4

MODULE AED\$SUBR (
LANGUAGE (BLISS32).
IDENT = 'V04-000'

BEGIN

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FACT

FACILITY: Miscellaneous utilities

ABSTRACT:

This module contains miscellaneous routines utilized by the ACL editor.

ENVIRONMENT:

VAX/VMS operating system, user mode utilities.

AUTHOR:

L. Mark Pilant

CREATION DATE: 27-Dec-1982 11:45

MODIFIED BY:

V03-009 LMP0213 L. Mark Pilant, 24-Mar-1984 12:23 Add support for locking and unlocking the object's ACL.

V03-008 LMP0193 L. Mark Pilant, 15-feb-1984 9:37 Remove the ACL twiddling in AED UPDATEACL. The actual ACL modification takes place when the session is ended.

V03-007 LMP0181

L. Mark Pilant,

15-Dec-1983 9:52

AED\$SUBR V04-000			B 10 15-Sep-1984 23:59:16 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:52:32 [ACLEDT.SRCJAEDSUBR.B32;1
58	0058 1 ! 0059 1 !		Change code to use \$CHANGE_ACL instead of the ACP to do ACL twiddling.
61 62 63	0061 1 0062 1 0063 1	v03-006	LMP0172 L. Mark Pilant, 28-Nov-1983 12:11 Numerous bug fixes, support for VT2xx terminals, and a session keystroke logger.
65	0065 1 0066 1	v03-005	L. Mark Pilant, 28-Apr-1983 9:45 Add support for HIDDEN and PROTECTED ACEs.
68	0068 1 1 0069 1	v03-004	L. Mark Pilant, 14-Apr-1983 12:11 Add the \$FORMAT_ACL and \$PARSE_ACL system services.
71 72 73	0071 1 1 0072 1 0073 1	v03-003	L. Mark Pilant, 16-feb-1983 15:48 Include some additional screen positioning to get around some problems with the new screen package.
75 76 77	0075 1 1 0076 1 1 0077 1	v03-002	L. Mark Pilant, 2-Feb-1983 14:43 Correct a bug that caused an access violation if the last line of the ACL text being compressed was empty.
58 59 60 60 60 60 60 60 60 60 60 60 60 60 60	0060 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MP0074 L. Mark Pilant, 20-Jan-1983 12:13 Correctly handle the RMS journal ACE's by setting or resetting the flags in the header when an ACE is added or deleted.
85 86 87 88	0085 1 0086 1 LIBRAR 0087 1 LIBRAR 0088 1 REQUIR	Y 'SYS\$LIB! Y 'SYS\$LIB! E 'SRC\$:ACI	RARY:LIB.L32'; RARY:TPAMAC.L32'; LEDTDEF';

AED\$SUBR V04-000	C 10 15-Sep-1984 23:59:16 VAX-11 Bliss-32 V4.0-742 Page 3 14-Sep-1984 11:52:32 [ACLEDT.SRC]AEDSUBR.B32:1 (2)
## 1	! Compress the screen ! Split segment into two pieces ! Combine two segments ! Copy segment to working storage ! Replace segment from working storage ! Position to selected line ! Update the file's ACL ! Set cursor position & remember ! General purpose output routine

AE V

(3)

```
D 10
15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
                                                                                                                                                                         VAX-11 Bliss-32 V4.C-742
CACLEDT.SRCJAEDSUBR.B32:1
     GLOBAL ROUTINE AED_COMPRESS : NOVALUE =
                                                  FUNCTIONAL DESCRIPTION:
                                                             This routine updates the screen display with the most recent copy of the text stored in memory. In updating, and blank lines (DUMMY) are eliminated from the display and the line table.
                                                  CALLING SEQUENCE:
AED_COMPRESS ()
                                                  INPUT PARAMETERS:
                                                             none
                                                  IMPLICIT INPUTS:
                                                             AED_L_BEGINLINE: address of the first line of the display AED_Q_LINETABLE: address of the line table list head
                                                  OUTPUT PARAMETERS:
                                                             none
                                                  IMPLICIT OUTPUTS:
                                                             none
                                                  ROUTINE VALUE:
                                                             none
                                                  SIDE EFFECTS:
                                                             none
                                              BEGIN
                                             LOCAL
                                                            LINES REMOVED.
OUTPUT DESC
CURRENT LINE
NEXT TEXT LINE
PREV TEXT LINE
REMOVED LINE
TEMP_LINE;
                                                                                                                                          ! Flag indicating output state
! Output line descr
                                                                                           : $BBLOCK [DSC$C_S_BLN],
: REF $BBLOCK,
: REF $BBLOCK,
: REF $BBLOCK,
: REF $BBLOCK,
                                                                                                                                             Address of current segment
Address of next line segment
Address of previous line segment
Address of line removed
Current line in the display
                                              ! Set the starting point.
                                              TEMP_LINE = 1;
LINES_REMOVED = 0;
CURRENT_LINE = .AED_L_BEGINLINE;
                                                     IF .CURRENT_LINE[LINE_V_DUMMY]
THEN
```

NEXT_TEXT_LINE = .CURRENT_LINE[LINE_L_FLINK];

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E 10
15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
CACLEDT.SRCJAEDSUBR.B32:1
                                                                                                   PREV TEXT_LINE = .CURRENT_LINE(LINE L_BLINK);

IF .AED L_BEGINLINE EQL .CURRENT_LINE;

THEN AED C_BEGINLINE = .NEXT TEXT LINE;

THEN AED C_FIRSTLINE EQL .CURRENT_CINE

THEN AED C_FIRSTLINE = .NEXT TEXT_LINE;

IF .AED C_CASTLINE = .NEXT TEXT_LINE;

IF .AED C_CASTLINE = .CURRENT_LINE

THEN AED C_LASTLINE = .CURRENT_LINE

THEN AED C_LASTLINE = .CURRENT_LINE

IF .REMOVED LINETLINE V_BEGINACE]

THEN IF .NEXT TEXT_LINE NEGA AED Q_LINETABLE(LINE_L_FLINK)

THEN NEXT TEXT_LINE NEGA AED Q_LINETABLE(LINE_L_FLINK)

THEN PREV TEXT_LINECLINE_Q_SIZE] + $BYTEOFFSET (LINE_T_TEXT),

REMOVED_CINE);

IF .NEXT_TEXT_LINE EQLA AED_Q_LINETABLE(LINE_L_FLINK)

THEN

BEGIN
                                                   BEGIN
SCRSERASE_PAGE (.TEMP_LINE, 1);
                                                                                                                     RETURN;
                                                                                                     UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]
DO AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];
CURRENT_CINE = .NEXT_TEXT_CINE;
IF NOT .LINES_REMOVED THEN SCRSERASE_PAGE (.TEMP_LINE, 1);
LINES_REMOVED = 1;
IF .TEMP_LINE LEQ .AED_B_LINE THEN AED_B_LINE = .AED_B_LINE - 1;
END
                                                                                                                     END:
                                                                                          ELSE
                                                                                                        BEGIN
                                                                                                        OUTPUT_DESC[DSC$W_LENGTH] = .CURRENT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = CURRENT_LINE[LINE_T_TEXT];
                                                                                                                 .LINES_REMOVED
                                                                                                        THEN
                                                                                                                   BEGIN
AED SET CURSOR (.TEMP_LINE, 1):
SCRSERASE LINE (.TEMP_LINE, 1):
AED_PUTOUTPUT (OUTPUT_DESC):
                                                                                                        TEMP_LINE = .TEMP_LINE + 1;
CURRENT_LINE = .CORRENT_LINECLINE_L_FLINK];
                                                                                           END
                                                                                                  (.TEMP_LINE GTR 20)
                                                                              UNTIL
                                                                                        OR (.CURRENT_LINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]);
                                                                              RETURN;
                                                                              END:
                                                                                                                                                                                                                                         ! End of routine AED_COMPRESS
```

.TITLE AED\$SUBR \V04-000\

.PSECT AED_COMMON, NOEXE, OVR, O

O0069
O006C AED_A_ACLBUFFER:
BLKB
O0070 AED_Q_OUTLINE:
BLKB
O0078 AED_W_OBJCHAN:
BLKB
O007A
O007C AED_W_TERMIN:

AE VO

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VAX-11 Bliss-32 V4.0-742 CACLEDT.SRCJAEDSUBR.B32;1

AE VO

D1 12 D0 OF

DO E9 9E

00046 0004A 0004E 00052

A7 52

04

MOVL

CMPL BNEQ

MOVL

MOVL MOVAB

REMQUE

NEXT TEXT LINE, AED L FIRSTLINE AED C LASTLINE, CURRENT LINE

4(CURRENT_LINE), AED_L_LASTLINE (CURRENT_CINE), REMOVED_LINE REMOVED_CINE, RO 10(RO), 6\$ AED_Q_LINETABLE, R1

AE VO

0614

0616 0617 0618

ED\$SUBR 04-000	1 10 15-Sep-1984 23:59:16 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:52:32 [ACLEDT.SRC]AEDSUBR.B32;1	Page (3)
	51 53 D1 00056 CMPL NEXT_TEXT_LINE, R1 04 13 00059 BEQL 68 01 88 0005B BISB2 #1, 10(NEXT_TEXT_LINE)	
OD OA	A0 01 E1 0005F 65: BBC #1, 10(R0), 75	0620 0621 0622
OA	51	0623 0625
04 04	51 EC A7 9E 00064 MOVAB AED Q LINETABLE, R1 55 D1 00068 CMPL PREV_TEXT_LINE, R1 04 13 0006B BEQL 78 02 88 0006D BISB2 #2, 10(PREV_TEXT_LINE) 04 AE 9F 00071 78: PUSHAB REMOVED LINE AE 08 AO 3C 00074 MOVZWL 8(RO), 4(SP) AE 04 AE 9F 00070 PUSHAB 4(SP) 00 02 FB 00080 CALLS #2, LIB\$FREE_VM	0625
00000000G	04 AE 9F 00070 PUSHAB 4(SP) 00 02 FB 00080 CALLS #2, LIB\$FREE VM 50 EC A7 9E 00087 MOVAB AED Q LINETABLE, RO 50 53 D1 0008B CMPL NEXT_TEXT_LINE, RO 08 12 0008E BNEQ 8\$	0626
	08 12 0008E BNEQ 8\$ 01 DD 00090 PUSHL #1 54 DD 00092 PUSHL TEMP_LINE 68 02 FB 00094 CALLS #2, SCR\$ERASE_PAGE	0629
	04 00097 RET	0628 0632
05 • OA	50 67 00 00098 8\$: MOVL AED_L_LASTLINE, RO A0 01 E0 00098 BBS #1, 10(RO), 9\$ 67 60 D0 000A0 MOVL (RO), AED_L_LASTLINE E3 11 000A3 BRB 8\$	0633
	52 53 DO OOOAS 98: MOVL NEXT TEXT LINE, CURRENT_LINE 07 56 F8 OOOAS BLAS LINES REMOVED, 108	0634 0635
54 EO A7	54 DD 000AD PUSHL TEMP_LINE 68 02 FB 000AF CALLS #2, SCR\$ERASE PAGE 56 01 DO 000B2 10\$: MOVL #1, LINES_REMOVED	0636 0637
	EO A7 97 000BD DECB AED_B_LINE	0606
08 0C	AE 14 A2 9E 000C7 MOVAB 20(R2), OUTPUT_DESC+4 1C 56 E9 000CC BLBC LINES_REMOVED, 12\$	0606 0643 0643 0646
0000v	01 DD 000CF PUSHL #1 54 DD 000D1 PUSHL TEMP_LINE CF 02 FB 000D3 CALLS #2, AED_SET_CURSOR 01 DD 000D8 PUSHL #1	0647
000000006	01 DD 000D8 PUSHL #1 54 DD 000DA PUSHL TEMP_LINE 00 02 FB 000DC CALLS #2, S(R\$ERASE_LINE 08 AE 9F 000E3 PUSHAB OUTPUT DESC CF 01 FB 000E6 CALLS #1, AEE PUTOUTPUT	
00006	08 AE 9F 000E3 PUSHAB OUTPUT DESC	0648
	08 AE 9F 000E3 CF 01 FB 000E6 CALLS #1, AED PUTOUTPUT 54 D6 000EB 128: INCL TEMP_LINE 52 62 D0 000ED MOVL (CURRENT_LINE), CURRENT_LINE 14 54 D1 000F0 138: CMPL TEMP_LINE, #20 0C 14 000F3 BGTR 148	0650 0651 0654
	50 52 D1 000F9 CMPL CURRENT_LINE, RO	0655
	03 13 000FC BEQL 14\$ FF19 31 000FE BRW 1\$ 04 00101 14\$: RET	0659

1 10 15-Sep-1984 23:59:16 YAX-11 BLiss-32 V4.0-742 14-Sep-1984 11:52:32 [ACLEDT.SRCJAEDSUBR.B32:1 AED\$SUBR V04-000 Page 10 (3)

AET VO4

Page

```
GLOBAL ROUTINE AED_SEGSPLIT (POSITION, EXACT, FIRST, NO_REPAINT) =
                   FUNCTIONAL DESCRIPTION:
                               This routine takes the current line segment and splits it up into two pieces. The second piece becomming the new current line. The split will occur at the current position or (usually) after the most recent delimiter.
                   CALLING SEQUENCE:
AED_SEGSPLIT (ARG1, ARG2, ARG3, ARG4)
                    INPUT PARAMETERS:
                              ARG1: address of the cell containing the current buffer position ARG2: 1 = do the split at the current position 0 = find the previous delimiter, and split after it ARG3: 1 = position to the first line segment 0 = position to the second (split) segment ARG4: 1 = don't repaint the display after splitting line 0 = repaint the display after splitting the line
                    IMPLICIT INPUTS:
                               AED_T_CURLINE: the current line segment
                   OUTPUT PARAMETERS:
                               ARG1: address of the cell containing the current buffer position
                   IMPLICIT OUTPUTS:
                              none
                   ROUTINE VALUE:
                              none
                   SIDE EFFECTS:
                              none
               BEGIN
               BIND
                               SEGMENT_SIZE
                                                              = AED_T_CURLINE[LINE_W_SIZE] : WORD,
= AED_T_CURLINE[LINE_T_TEXT] : VECTOR [,BYTE];
                               BUFFER
               LOCAL
                               OUTPUT DESC
NEW TEXT LINE
SPLIT SEGMENT
SPLIT SIZE,
SKIP_CHAR;
                                                                                                                ! Output line descr
Addr of new line segment
Addr of split portion
Size of split off segment
Skip characters in field count
                                                              : $BBLOCK [DSC$C_S_BLN],
: REF $BBLOCK,
: REF $BBLOCK,
                ! Initialize necessary items.
                CH$FILL (O, DSC$C_S_BLN, OUTPUT_DESC);
```

```
! If this is not an exact split, find the previous delimiter.
              IF NOT .EXACT
DECR J FROM .SEGMENT_SIZE - 1 TO 0
                             BEGIN
                             IF (.BUFFER[.J] LSS 'A' OR .BUFFER[.J] GTR 'Z')
AND (.BUFFER[.J] LSS: O' OR .BUFFER[.J] GTR '9')
AND .J LSS .. POSITION
                             THEN
                                     .POSITION = .J + 1;
                                     EXITLOOP:
                                    END:
                             END:
                      END:
                  Split the line up into two segments. This may cause the second segment to be null if the index was at the end of the segment. This is OK, as it will
                  be cleaned up when the segment is replaced.
              SPLIT_SIZE = .SEGMENT_SIZE - ..POSITION;

AED_L_STATUS = ALLOCATE (.SPLIT_SIZE + $BYTEOFFSET (LINE_T_TEXT),

SPLIT_SEGMENT);
               IF NOT .AED_L_STATUS
               THEN
                     BEGIN
SIGNAL (.AED_L_STATUS);
RETURN 0;
                      END:
                  Copy the text from the current line as AED_REPSEGMENT clears out the
                  current line buffer. Then, replace the modified first part of the original line.
              CH$MOVE (.SPLIT_SIZE, BUFFER(..POSITION], SPLIT_SEGMENT(LINE_T_TEXT));
SEGMENT_SIZE = ..POSITION;
SCRSERASE_LINE (.AED B LINE, .SEGMENT_SIZE + 1);
NEW_TEXT_CINE = AED_REPSEGMENT ();
                  Fill in the necessary information about the split portion of the original
               ! line segment.
              SPLIT SEGMENT[LINE U SIZE] = .SPLIT_SIZE;

IF .NEW TEXT LINE[[INE V ENDACE]

THEN SPLIT SEGMENT[LINE U FLAGS] = LINE_M_ENDACE

ELSE SPLIT SEGMENT[LINE U FLAGS] = 0;

NEW TEXT LINE[LINE V ENDACE] = 0;

SPLIT SEGMENT[LINE L BINACE] = .NEW TEXT LINE[LINE L BINACE];

INSQUE (SPLIT SEGMENT[LINE L FLINK], NEW TEXT LINE[LINE_L FLINK]);

AED_U_TOTALSIZE = .AED_W_TOTALSIZE + .SPLIT_SIZE;
                  Determine the field index for the split portion of the line. This is done by counting the number of fields in the first part of the line.
```

```
$227890125456789012545678901254567890125456789012545678901254567890125456789012545678901
```

```
SKIP CHAR = 0;
AED & FIELD = .NEW TEXT LINECLINE & FIELDST];
INCR J FROM 0 TO .NEW_TEXT_LINECLINE_W_SIZE] - 1
          IF .VECTOR [NEW TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL '['
THEN SKIP_CHAR = 1;
IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL ']'
THEN SKIP_CHAR = 0;
IF NOT .SRIP_CHAR
THEN
                    BEGIN
IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL ','
THEN______
                              IF .AED B FIELD GEQ 1 AND .AED_B_ACETYPE NEQ ACESC_DIRDEF
THEN AED B FIELD = 6
ELSE AED_B_FIELD = .AED_B_FIELD + 1;
                               END:
                            AED B FIELD GEO 1
                              BEGIN
                              IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J: ,BYTE] EQL '='
OR .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J: ,BYTE] EQL '+'
THEN AED_8_FIELD = .AED_B_FIELD + 1;
                    END:
SPLIT_SEGMENT[LINE_B_FIELDST] = .AED_B_FIELD;
! Position to the correct segment.
IF .FIRST
          AED POSITION (.NEW TEXT LINE);
AED COPSEGMENT (.NEW TEXT LINE);
INSQUE (AED T CURLINE(LINE L FLINK), .N
IF .AED L FIRSTLINE EQL .NEW TEXT LINE
THEN AED C FIRSTLINE = AED T CURLINE;
IF .AED C CASTLINE EQL .NEW TEXT LINE
THEN AED C LASTLINE = .SPLIT SEGMENT;
IF .AED C BEGINLINE EQL .NEW TEXT LINE
THEN AED C BEGINLINE = AED T CURLINE;
END
                                                                                                       .NEW_TEXT_LINE(LINE_L_BLINK]);
           END
ELSE
          AED POSITION (.SPLIT SEGMENT);
AED COPSEGMENT (.SPLIT SEGMENT);
INSQUE (AED T CURLINE[[INE L FLINK].
IF .AED L LASTLINE EQL .NEW TEXT LINE
THEN AED [LASTLINE = AED_T_CURLINE;
                                                                                                       .SPLIT_SEGMENT[LINE_L_BLINK]);
           END:
     Now repaint the display. This is done by either scrolling down and repainting the first part of the display or repainting from the current position to the end of the display (or the end of the ACL). This is necessary to echo the
```

```
2 ! text from the split portion of the line.
IF NOT .NO_REPAINT THEN
                            BEGIN
                                  .AED_B_LINE LEG 10
                            THEN
                                     BEGIN
                                     AED SET CURSOR (1,1);

SCR$DOWN_SCROLL ();

NEW TEXT_LINE = .AED_L BEGINLINE;

INCR J FROM 1 TO .AED_B_LINE
                                                                                                               ! **** TEMP ****
                                              BEGIN
                                             OUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
AED_PUTOUTPUT (OUTPUT_DESC);
SCR$ERASE_LINE (.J. .OUTPUT_DESC[DSC$W_LENGTH] + 1);
NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
END;
                                     END
                           ELSE
                                     NEW TEXT LINE = .AED T CURLINE[LINE_L_FLINK];
INCR J FROM .AED_B_LINE TO 20
                                             OUTPUT DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
OUTPUT DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
AED_PUTOUTPUT (OUTPUT DESC);
SCR$ERASE_LINE (.J. .OUTPUT DESC[DSC$W_LENGTH] + 1);
NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
IF .NEW_TEXT_LINE EQ[A_AED_Q_LINETABLE[LINE_L_FLINK] THEN EXITLOOP;
                                              END:
                                     END:
                            END:
                   ! Set the cursor position correctly.
                  .POSITION = 0;
IF .FIRST OR NOT .EXACT
THEN .POSITION = .SEGMENT_SIZE;
                   AED_B_COLUMN = ..POSITION + 1;
AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
                  RETURN 1;
END;
                                                                                                                                  ! End of routine AED_SEGSPLIT
```

SEGMENT_SIZE= AED_T_CURLINE+8
BUFFER= AED_T_CURLINE+20
LIB\$SIGNAL

			14-Sep-1	984 11:52:37		(4)
			OFFC 00000	.ENTRY A	ED_SEGSPLIT, Save R2,R3,R4,R5,R6,R7,R8,R9,-	: 0660
08	00	5B 000000006 00 5A 000000006 00 59 0000 CF 5E 10 6E 00	9E 00002 9E 00009 9E 00010 C2 00015 2C 00018	MOVAR SO	CRSSET_CURSOR, R11 CRSERASE_LINE, R10 ED_B_FIEED, R9 16, SP 0, (SP), #0, #8, OUTPUT_DESC	0715
		31 08 AC 50 28 A9 28	0001D E8 0001F 3C 00023 11 00027	BLBS EX	XACT, 58 EGMENT_SIZE, J	0719 0722
	41	51 34 A940 8F 51	9A 00029 15: 91 0002E	BRB 43	UFFERCJ], R1	0725
	5A	8F 51	1F 00032 91 00034	BLSSU 21	1, #65	
		30 51 05	1B 00038 91 0003A 28: 1F 0003D 91 0003F	CMPB R1 BLSSU 21 CMPB R1 BLEQU 41 CMPB R1 BLSSU 31 CMPB R1 BLSSU 31	1, #48	0726
		39 51 00	91 0003F 1B 00042	CMPB R1 BLEQU 41	1, <i>W</i> 57	
	04	BC 50	1F 0003D 91 0003F 1B 00042 D1 00044 3\$: 18 00048 9E 0004A 11 0004F	BGEQ 4	a POSITION	0727
	04	BC 01 A0 03 50	9E 0004A 11 0004F	BRB 5	(RO), aposition	0730 0729 0722 0740
		58 04 BC 56 28 A9 56 58	F4 00051 45: D0 00054 55: 3C 00058 C2 0005C 9F 0005F 9E 00062 D0 00066	MOVZWI SI	, 18 POSITION, R8 EGMENT SIZE, SPLIT_SIZE 8, SPLIT_SIZE	
	04	52 14 A6 AE 52	DU 00066	PUSHAB SE MOVAB 20 MOVL RZ PUSHAB 40	8. SPLIT SIZE PLIT SEGMENT 0(R6), R2 2, 4(SP) (SP)	0742
	00000006	00 04 AE 02 57 50 07 57	9f 0006A fB 0006D DO 00074 E9 00077 2C 0007A	MOVI RO	O. VM STATOS	
52	00	6E 00 BE	2C 0007A 0007F		M_STATUS, 6\$ 0, (SP), #0, R2, @SPLIT_SEGMENT	
	FC	A9 57 57 50 FC A9 03	DO 00081 6\$: E8 00085	MOVL VI BLBS AB	M_STATUS, AED_L_STATUS EB_L_STATUS, TO\$	0743 0746
	12 FF70	C9 03 01	D0 00081 6\$: E8 00085 E1 00089 DD 0008F DD 00091	BBC #3 PUSHL #1	M_STATUS, AED_L_STATUS EB_L_STATUS, TO\$ 3, AED_L_FLAGS, 7\$ 21 2, SCR\$ERASE_PAGE	0746
	000000006	00 02	FB 00093 DD 0009A	BLBS AE BBC PUSHL PUSHL CALLS PUSHL PUSHL CALLS PUSHL CALLS	2. SCRSERASE_PAGE	
		6B FC A9	FB 0009E DD 000A1 78:	PUSHL #1 PUSHL #2 CALLS #2	2. SCR\$SET_CURSOR	
	000000006 0B FF70	00 C9 01	FB 000A4 F1 000AR	CALLS #1	TIDSSIGNAL	
	05 1770	7É 90 A9 7E 94 A9 6B 02	9A 000B1	CALLS ME MOVZBL AS CALLS	ED B COLOMN, -(SP)	
		00 C9 7E 7E 90 A9 7E 94 A9 6B 50 FC A9	DD 0009A DD 0009C FB 0009E DD 000A1 7\$: FB 000A4 E1 000AB 9A 000B1 9A 000B5 FB 000B9 D0 000BC 8\$: 93 000C0	CALLS #2 MOVL AB	2, SCRSSET CURSOR ED L STATUS, RO 0, #7	
51 51	84 A9	03 03 00 00	DO 00081 6\$: E8 00085 E1 00089 DD 0008F DD 00091 FB 00093 DD 0009C FB 0009E DD 000A1 FB 000A4 E1 000AB 9A 000B1 9A 000B5 FB 000B5 FB 000B5 FB 000B5 FB 000C5 EF 000C5 ED 000CA	MOVL AB BITB RO BEQL 95 EXTZV MO CMPZV MO	Z, SCRSSET CURSOR ED L STATUS 1. LIB\$SIGNAL 3. AED L FLAGS. 8\$ ED B COLOMN, -(SP) ED B LINE, -(SP) 2. SCR\$SET CURSOR ED L STATUS, RO 0. #3. RO R1 0. #3. AED L WORSTERR, R1	

							5-Sep-	1984 23:59: 1984 11:52:	16 VAX-11 Bliss-32 V4.0-742 32 [ACLEDT.SRC]AEDSUBR.B32;1	Page 16 (4)
		84	A9		04 50	18 00000 00 00000 31 00000 00 00000 28 00000 80 00000 30 00000	04.	BGEQ MOVL BRW	9\$ RO AED_L_WORSTERR 33\$	0747
14	A7	34	57 A948	04	AE	00000	98: 108:	MOVL MOVC3	SPLIT SEGMENT, R7	0747 0754
14	n,	28	7E	28	58 A9	BO 000E		MOVZWL INCL	R8, SEGMENT SIZE SEGMENT SIZE, -(SP)	0755 0756
		0000v	7E 6A CF	94	0184589E92000612372376543331E	18 00000 00 00000 31 00000 28 00000 80 000E 50 000E 9A 000E 9B 000F FB 000F FB 000F BO 000F BO 000F BO 000F BO 000F		MOVZBL CALLS CALLS MOVL MOVW	SPLIT_SEGMENT, R7 SPLIT_SIZE, BUFFER[R8], 20(R7) R8, SEGMENT_SIZE, SEGMENT_SIZE, -(SP) (SP) AED_B_LINE, -(SP) #2, STR\$ERASE_LINE #0, AED_REPSEGMENT R0, NEW_TEXT_LINE SPLIT_SIZE, 8(R7) #1, 10(NEW_TEXT_LINE), 11\$ #2, 10(R7)	0757
			53 A7		50 56	DO 000F		MOVE	RO, NEW TEXT LINE SPLIT SIZE, B(R7)	
	06	80 A0 A0	53 A7 A3 A7		01	E1 0010		BBC	#1, 10(NEW_TEXT_LINE), 11\$ #2, 10(R7) 12\$ 10(R7)	0762 0763 0764
				0A	03	BO 00100 11 00100 B4 00100	118:	CLOIL	10/07)	0765
		OA OC	A3	00	02	84 00100 8A 00100 DO 00111 0E 00118	128:	BICB2	#2, 10(NEW_TEXT_LINE) 12(NEW_TEXT_LINE), 12(R7)	0766 0767
		0234	63	•	67	AO 00111		MOVL INSQUE	(R7), (NEW TEXT LINE)	: 0768
		0634		10	54	00120		ADDW2 CLRL MOVB MOVZWL	SKIP CHAR	0769 0774 0775
			69 55 50 52	10 08 14	A3	04 00120 90 00120 3C 00120 9E 00120 CE 00120 11 0013		MOVZWL MOVAB MNEGL	#2, 10(NEW TEXT LINE) 12(NEW TEXT LINE), 12(R7) (R7), (NEW TEXT LINE) SPLIT SIZE, AED_W_TOTALSIZE SKIP CHAR 16(NEW TEXT LINE), AED_B_FIELD 8(NEW TEXT LINE), R5 20(NEW TEXT_LINE), R0	0776 0779
					3E	11 0013	170.	BRB MOVZBL	19\$	
		58	51 8F		51	9A 0013	138:	CMPB	(J)[R0], R1 R1, #91 14\$	
		50	54 8F		6240 51 03 01 51 02 54 54	12 00138 00 00138 91 00140	138: 148: 158: 168: 178:	MOVL	#1. SKIP_CHAR R1. #93 15\$	0780 0781
			24		54	12 00144 04 00146	150.	BNEQ	SKIP_CHAR	0782
			5¢		51	E8 00148	138:	BLBS	SKIP_CHAR SKIP_CHAR, 19\$ R1, #44 17\$	0782 0783 0786
					69	95 00150		TSTB	AED_B_FIELD	0789
			09	18	A9	91 0015		CMPB	AED_B_ACETYPE, #9	
			69		06	12 0014(95 0015) 13 0015 91 0015 13 0015(90 0015)		MOVB	168 #6. AED_B_FIELD 178	0790
					69	96 0015	168:	BRB INCB ISTB BEQL CMPB BEQL CMPB	AED_B_FIELD	0791 0793
			20		000	96 00151 95 00161 13 00161 91 0016	1/3:	BEQL	AED_B_FIELD 19\$:
			30		05	13 0016		BEOL	R1 #61 18\$ R1 #43 19\$	0796
			28		95	13 00168 91 00168 12 00168 96 00179 D0 00179 90 00179 E9 00178			R1 #43 19\$	0797
	BE		52		55	F2 0017	198	BNEQ INCB AOBLSS	R5. J. 13\$	0798 0776
		10	52 52 82 36	04	69	90 0017		MOVE	AED_B_FIELD, 16(R2)	0802
		0000		00	69 089 0629 0629 0515 05129 58 68 501	DD 00181		BLBC PUSHL CALLS	AÉD_B_FIELD RS_J. 138 SPLIT_SEGMENT, R2 AED_B_FIELD, 16(R2) FIRST, 228 NEW_TEXT_LINE #1, AED_POSITION	0806 0809
		0000v	CF		01	FB 00183	5	CALLS	#1, AED_POSITION	:

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					D 11 15-Sep-1 14-Sep-1	984 23:59 984 11:52	:16 VAX-11 BLiss-32 V4.0-742 :32 [ACLEDT.SRC]AEDSUBR.B32;1	Page 17
	0000V	CF B3 53	20	53	DD 00188 FB 0018A OE 0018F	PUSHL CALLS INSQUE	NEW_TEXT_LINE #1, AED COPSEGMENT AED T CORLINE 24(NEW TEXT LINE)	0810
	94	53	B0	A9	01 00194 12 00198	CMPL BNEQ	AED_T_CORLINE, 24 (NEW_TEXT_LINE) AED_L_FIRSTLINE, NEW_TEXT_LINE 208	0811 0812
	B0	A9 53	20 B4	49	0E 0018F 01 00194 12 00198 9E 0019A 01 0019F 208:	MOVAB CMPL BNEQ	AED_T_CURLINE, AED_L_FIRSTLINE AED_L_LASTLINE, NEW_TEXT_LINE 218	0813 0814
	84	A9 53	04 B8	AE A9	DO 001A5	MOVL CMPL BNEQ	SPLIT SEGMENT, AED L LASTLINE AED L BEGINLINE, NEW TEXT LINE 238	0815 0816
	88	A9	50	A9	12 001AE 9E 001B0 11 001B5	MOVAB BRB	AED_T_CURLINE, AED_L_BEGINLINE	0817 0806
	0000v	CF		52 01	DD 00187 228: FB 00189	PUSHL	#1, AED_POSITION R2	0821
	0000V	CF		52	DD 001BE FB 001C0	PUSHL	#1. AFD COPSEGMENT	0822
	04	B2 53	20 84	A9 A9	0E 001C5 D1 001CA 12 001CE	INSQUE CMPL BNEQ	AED_T_CORLINE, 04(R2) AED_L_LASTLINE, NEW_TEXT_LINE 238	0823 0824
	B4	A9 4F 0A	20 10 94	309959959E959E21219959C9B	9E 001D0 E8 001D5 238: 91 001D9	MOVAB BLBS CMPB BGTRU	AED_T_CURLINE, AED_L_LASTLINE	0825 0833 0836
					1A 001DD DD 001DF	PUSHL	AEB_B_LINE, #10 273 #1	0839
0	00000000 000000000	CF 00 53 54	B8 94	01 01 00 00 00 00 00 00 00 00 00 00 00 0	DD 001E1 FB 001E3 FB 001E8 DO 001EF 9A 001F3	PUSHL CALLS CALLS MOVL MOVZBL	#2. AED_SET_CURSOR #0. SCR\$DOWN_SCROLL AED_L_BEGINLINE, NEW_TEXT_LINE AED_B_LINE, R4	0840 0841 0842
	08 0C	AE AE	08 14		D4 001F7 11 001F9 B0 001FB 24\$: 9E 00200	CLRL BRB MOVW MOVAB	25\$ 8(NEW_TEXT_LINE), OUTPUT_DESC 20(R3), OUTPUT_DESC+4	0845 0846
	00004			01 52	DD 00205 DD 00207 FB 00209	PUSHL	<u>5</u> '	0847
	00000	CF	08	AE	9F 0020E	CALLS PUSHAB	#2, AED_SET_CURSOR OUTPUT_DESC_	0848
	00006	CF 7E	80	AE 6E	FB 00211 3C 00216 D6 0021A DD 0021C FB 0021E	CALLS MOVZWL INCL	OUTPUT DESC #1, AED PUTOUTPUT OUTPUT_DESC, -(SP) (SP)	0849
D3		6A 53 52		02 63	DO 00221	CALLS	(SP) #2, SCR\$ERASE_LINE (NEW_TEXT_LINE), NEW_TEXT_LINE R4, J, 24\$ 30\$	0850 0842
כע			20	42	11 00228 26\$:	HUAL	VED I COMPTUE " MEM LEVI FINE	0836 0855 0856
		53 52	94	A9	DO 0022A 27S: 9A 0022E D7 00232 11 00234	MUV/ML	JED_B_LINE, J	0856
	80	AE AE	08	050A0A650654AA553AA050A0	BO 00236 285:	DECL BRB MOVW MOVAB PUSHL	8(NEW_TEXT_LINE), OUTPUT_DESC 20(R3), OUTPUT_DESC+4	0859 0860 0861
	0000v	CF		25	DD 00240 DD 00242 FB 00244	PUSHL CALLS PUSHAB	#2, AED_SET_CURSOR	
	00006	CF	08	AE 01	9F 00249 FB 0024C	PUSHAB	#2, AED_SET_CURSOR OUTPUT_BESC #1, AED_PUTOUTPUT	0862

AED\$SUBR V04-000								1	11 5-Sep-1 4-Sep-1	984 23:59 984 11:52	:16	VAX-11 BLiss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1	Page 18 (4)
				7E	08	AE 6E	3C D6	00251 00255		MOVZWL	OUTPU (SP)	T_DESC, -(SP)	0863
				6A 53 50 50	AO	52 63 63 53	DD B0 91	00257 00259 00250 0025F 00263		MOVZWL INCL PUSHL CALLS MOVL MOVAB CMPL BEGL AOBLEG CLRL BLBS MOVZWL ADDB3 MOVZBL CALLS MOVZBL CALLS MOVL RET CLRL	1	CRSERASE LINE TEXT_LINE), NEW_TEXT_LINE LINETABLE, RO EXT_LINE, RO	0864 0865
		CA		52	04	14 BC	F 3	00268 00268	298: 308:	AOBLEQ CLRL	#20 POSI FIRST EXACT		0856 0872 0873
				04	04 00 08 28	AC	E8	0026F 00273		BLBS	FIRST	, 318 , 328	•
	90	A9	04	05 BC BC 7E 7E	28 90 94	AC AC A9 01 A9	3C 81 9A 9A	00277 00270 00282 00286	318: 328:	MOVZWL ADDB3 MOVZBL MOVZBL	SEGME #1, a	NT_SIZE, BPOSITION POSITION, AED_B_COLUMN L COLUMN(SP)	0874 0876 0877
			0000v	CF 50		A9 02 01	FB 00 04	0028A		MOVL	#2. A	LINE - (SP) ED_SET_CURSOR	0879
						50	04 04 04	00293	338:	RET CLRL RET	RÖ		0880

; Routine Size: 662 bytes, Routine Base: \$CODE\$ + 0102

AE!

VO

```
THEN
                        BEGIN
SIGNAL (AED$_NOCOMBINE);
RETURN 1;
                                                      END;
.AED_T_CURLINECLINE_V_ENDACE]
                                                      BEGIN

NEW_TEXT_LINE = .AED_T_CURLINE[LINE_L_FLINK];

IF .AED_T_CURLINE[LINE_V_REPLACE]

THEN NEW_TEXT_LINE = .RED_TEXT_LINE[LINE_L_FLINK];

.NEW_TEXT_LINE[LINE_V_BEGINACE]
                                                THEN
                                                        SIGNAL (AEDS_NOCOMBINE);
RETURN 1;
                                                PREV_LINE = AED_REPSEGMENT ();
NEW_TEXT_LINE = .PREV_LINE(LINE_L_FLINK);
                                         ELSE
                                                     .AED_T_CURLINE[LINE_L_BLINK] EQLA AED_Q_LINETABLE[LINE_L_FLINK] .AED_T_CURLINE[LINE_V_BEGINACE]
                                                THEN
                                                       BEGIN
SIGNAL (AED$_NOCOMBINE);
RETURN 1;
                                                END;

NEW TEXT LINE = AED REPSEGMENT ();

PREV_LINE = .NEW_TEXT_LINE(LINE_L_BLINK);
                                         ! Combine the two segments.
                                        AED_L_STATUS = ALLOCATE (.PREV_LINE[LINE W_SIZE] +
.NEW_TEXT_LINE[[INE W_SIZE] +
.SBYTEOFFSET (LINE_T_TEXT), COMBINED_LINE);
                                         IF NOT .AED_L_STATUS
                                         THEN
                                                BEGIN
SIGNAL (.AED_L_STATUS);
RETURN 0;
                                                END:
                                         .COMBINED LINE[LINE w SIZE]. COMBINED LINE[LINE T TEXT]);

IF .PREV LINE[LINE V BEGINACE] THEN COMBINED LINE[LINE V BEGINACE]

IF .NEW TEXT LINE[LINE V ENDACE] THEN COMBINED LINE[LINE V ENDACE]

COMBINED LINE[LINE L BINACE] = .PREV LINE[LINE L BINACE];

COMBINED LINE[LINE B FIELDST] = .PREV LINE[LINE B FIELDST];

INSQUE (COMBINED LINE[LINE L FLINK], .PREV_LINE[LINE L BLINK]);
```

```
AED$SUBR
V04-000
                                                                                        AED COPSEGMENT (.COMBINED LINE);
INSQUE (AED T CURLINE[LINE | FLINK], .COMBINED LINE[LINE | BLINK]);
IF .AED L FIRSTLINE EQL .PREV LINE THEN AED L FIRSTLINE = AED T CURLINE;
IF .AED L BEGINLINE EQL .PREV LINE OR .AED L BEGINLINE EQL .NEW_TEXT_LINE
THEN AED L BEGINLINE = AED T CURLINE;
REMQUE (PREV_LINECLINE | FCINK], REMOVED LINE);
DEALLOCATE (.REMOVED LINECLINE | SIZE] + SBYTEOFFSET (LINE_T_TEXT),
REMOVED CINE);
REMQUE (NEW TEXT LINECLINE | FLINK], REMOVED LINE);
DEALLOCATE T.REMOVED LINECLINE | SIZE] + SBYTEOFFSET (LINE_T_TEXT),
REMOVED CINE);
IF .COMBINED_LINECLINE | SIZE] GTR .AED_L PAGEWIDTH
THEN
                                                            THEN
                                                                                                        BEGIN

AED_SEGSPLIT (**REF (.AED_L PAGEWIDTH - 1), 0, 1, 1);

AED_POSITION (AED_T CURLINE);

OUTPUT_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];

OUTPUT_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];

AED_SET_CURSOR (.AED_B_LINE_1);

AED_PUTOUTPUT (OUTPUT_DESC);

SCR$ERASE_LINE (.AED_B_LINE_.AED_T_CURLINE[LINE_W_SIZE] + 1);

NEW_TEXT_LINE = .$BBCOCK (.AED_T_CURLINE[LINE_W_SIZE];

OUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];

OUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];

AED_SET_CURSOR (.AED_B_LINE + 1, 1);

AED_PUTOUTPUT (OUTPUT_DESC);

SCR$ERASE_LINE (.AED_B_LINE + 1, .NEW_TEXT_LINE[LINE_W_SIZE] + 1);
                                                                                                           SCRSERASE_LINE (.AED_B_LINE + 1, .NEW_TEXT_LINE(LINE_W_SIZE) + 1);
                                                                                                           END
                                                                                           ELSE
                                                                                                          AED_POSITION (AED_T_CURLINE);
                                                                                                 Since the combined lines fit on one line, it will be necessary to shift all of the lines after the combined line up one. This is done by either scrolling down and repainting the first part of the display or repainting from the current position to the end of the display (or the end of the ACL).
                                                                                                                    .AED_B_LINE LEQ 10
                                                                                                           THEN
                                                                                                                          BEGIN
                                                                                                                        AED_SET_CURSOR (20,1); !
SCRBUP_SCROLL ();
NEW_TEXT_LINE = .AED_L_BEGINLINE;
INCR J FROM 1 TO .AED_B_LINE
                                                                                                                                                                                                                                                    ! **** TEMP ****
                                                                                                                                         DUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
DUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
                                                                                                                                         AED PUTOUTPUT (OUTPUT DESC!);
SCRSERASE LINE (.J. .OUTPUT DESC[DSC$W_LENGTH] + 1);
NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
                                                                                                                                         END:
                                                                                                                          END
                                                                                                           ELSE
                                                                                                                          BEGIN
```

```
AED$SUBR
V04-000
                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742
LACLEDT.SRCJAEDSUBR.B32;1
                                                                                                                                                                                                                                                                             Page (5)
                                                                     IF .AED_L_FLAGS[AED_V_ENDACL]
THEN NEW_TEXT_LINE = AED_T_CURLINE
ELSE NEW_TEXT_LINE = .AED_T_CURLINECLINE_L_FLINK];
INCR J FROM .AED_B_LINE TO ZO
                                   1052
1053
1054
1055
1056
1057
1058
1065
1063
1065
1066
1067
1068
1069
      604
605
606
607
608
610
611
613
614
                                                                                    .NEW_TEXT_LINE EQLA AED_Q_LINETABLECLINE_L_FLINK]
                                                                              THEN
                                                                                      BEGIN
IF J LSS 20 THEN SCRSERASE_PAGE (.J. 1);
EXITLOOP;
                                                                             OUTPUT DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE]:
OUTPUT DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
AED_PUTOUTPUT (OUTPUT DESC);
SCR$ERASE_LINE (.J. .OUTPUT DESC[DSC$W_LENGTH] + 1);
NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
                                  1071
1072
1073
1074
1075
1076
                                                                     END:
                                                    AED_B_COLUMN = ..POSITION + 1;
AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
                                                    RETURN 1:
                                   1078
                                                    END:
                                                                                                                                                             ! End of routine AED_SEGCOMBINE
                                                                                                                                               SEGMENT_SIZE=
                                                                                                                                                                                           AED_T_CURLINE+8
                                                                                                                                                                                 AED_SEGCOMBINE, Save R2,R3,R4,R5,R6,R7,R8,-
R9,R10,R11
#20, SP
                                                                                                                                                                                                                                                                                      0881
                                                                                                                        OFFC 00000
                                                                                                                                                                 .ENTRY
                                                                                     SE
6E
                                                                                                                                  00002
00005
0000A
                                                                                                                                                                 SUBL2
MOVC5
                                                                                                                            5C
CS
                                                                                                                   14
00
AE
CF
CF
09
03
                                                                                                                                                                                                                                                                                      0929
                        08
                                                      00
                                                                                                                                                                                  #0, (SP), #0, #8, OUTPUT_DESC
                                                                                                    0000
0000
                                                                                     68
50
50
                                                                                                                                                                                  DIRECTION, 6$
AED_Q_LINETABLE, RO
AED_T_CURLINE, RO
1$
                                                                                                                                                                                                                                                                                      0934
0937
                                                                                                                                                                 BLBC
                                                                                                                                                                 MOVAB
                                                                                                                                                                 CMPL
BNEQ
                                                                                                                                  0001A
0001C
00022
00025
0002B
00030
00036
00039
00045
                                                                                                                                                                                                                                                                                      0940
                                                       70
                                                                     0000
                                                                                     CF
                                                                                                                                                                 BBS
                                                                                                                                                                                          AED_L_FLAGS, 8$
                                                                                                                                                                 BRW
BBS
                                                                                                                                                                                 AT AED T CURLINE+10, 3$
AED T CORCINE, NEW TEXT LINE
M3, AED T CURLINE+TO, 2$
(NEW TEXT LINE), NEW TEXT LINE
10 (NEW TEXT LINE), 5$
M3, AED_L_FEAGS, 4$
                                                                                                                                                                                                                                                                                      0943
0946
0947
0948
0949
0953
                                                       12
                                                                      0000
                                                                                                    0000
                                                                                                                                                                 MOVL
                                                       03
                                                                      0000
                                                                                                                                                                 BBC
                                                                                                                                                                 MOVL
BLBC
BBC
                                                                                                         OA
                                                                      0000'
                                                       16
                                                                                                                                                                 PUSHL
                                                                                                                                                                 PUSHL
                                                                                                                                   00047
0004E
00050
00052
                                                                                                                                                                 CALLS
                                                                                                                                                                                           SCRSERASE_PAGE
                                                             00000000G
                                                                                                                                                                 PUSHL
                                                                                                                                                                                  #2, SCRSSET_CURSOR #AEDS_NOCOMBINE
                                                                                                                                                                 CALLS
                                                             00000000G
                                                                                            00000000G
```

AEC VO4

AED\$SUBR V04-000								1	11 -Sep-1 -Sep-1	984 23:59 984 11:52	: 16	VAX-11 Bliss-32 V4.0-742 Page LACLEDT.SRCJAEDSUBR.832;1	ge (23
			4F	000000006	00 CF		01 FB 03 E0	0005F 00066		CALLS	#1 #3	LIBSSIGNAL AED_L_FLAGS, 108	
				0000v	CF 57		5E 11 00 FB 50 DO	0006E 00073 00076	58:	BRB CALLS MOVL	#0 RO	AED REPSEGMENT PREV LINE EV_LINE), NEW_TEXT_LINE	0956
					58 50 50	0000	67 DO 7E 11 CF 9E	00079 00078	68:	BBS BRB CALLS MOVL MOVL BRB MOVAB CMPL BEQL BLBC BUSHL PUSHL CALLS PUSHL CALLS PUSHL CALLS	143	ev_LINE), NEW_TEXT_LINE _Q_LINETABLE, RO _T_CURLINE+4, RO	0957 0934 0961
							05 13	00080		BEQL	73		0043
			16	0000°	61 CF	0000*	03 E1	00087 0008C 00092	78: 88:	BBC PUSHL	#3.	T_CURLINE+10, 13\$ AED_L_FLAGS, 9\$	0963 0965
				000000006	00		15 DD 02 FB 01 DD	00094 00096 00090		PUSHL CALLS PUSHL	#21	SCRSERASE_PAGE	
				000000006	00	000000006	15 DD 02 FB 8F DD	0009F 000A1 000A8	98:	PUSHL	#21 #2	SCRSSET_CURSOR DS_NOCOMBINE	
			11	00000000	OO CF		01 FB 03 E1	000AE		CALLS	#1.	LIB\$SIGNAL AED_L_FLAGS, 11\$	
					7E 7E	0000	CF 9A	00000	108:	BBC MOVZBL MOVZBL CALLS	AED	B (OLOMN, -(SP) B LINE, -(SP) SCREET CHROOP	
				0000000G	00	00000000*	8F D5	20000 20000 20000	118:	TSTL BEQL CMPZV	# <a< td=""><td>SCRSSET CURSOR EDS_NOCOMBINES7></td><td></td></a<>	SCRSSET CURSOR EDS_NOCOMBINES7>	
00000000	8F	0000	CF		03		00 ED 09 18	000D4 000DF		CMPZV BGEQ	125	#3, AED_L_WORSTERR, # <aed\$_nocombine&7></aed\$_nocombine&7>	
				0000.	CF	000000000	8F DO ED 31	000E1	125: 135:	BGEQ MOVL BRW	595	ACD DEDCECHENT	0966
				0000V	CF 58 57	04	00 FB 50 DO AB DO	000ED 000F2	139:	MOVL MOVL	RO.	AED_REPSEGMENT NEW_TEXT_LINE EW_TEXT_LINE PREV_LINE	
						04 04 08 08	A8 D0 AE 9F A7 3C	000F5 000F9 000FC	148:	PUSHAB MOVZWL MOVZWL ADDL2 MOVAB MOVL PUSHAB CALLS MOVL BLBC MOVC5	COM 8(P	NEW TEXT LINE EW TEXT LINE), PREV_LINE BINED_LINE REV_LINE), R9 EW TEXT_LINE), R0 R9 R9), R2 4(\$P) P)	0969 0976
					59 59 52 AE		A7 3C A8 3C 50 CO A9 9E	00100 00104 00107		MOVZWL ADDL2	8(N RO,	EW_TEXT_LINE), RO	
				04	AE	14 04	52 DO AF 9F	00108		MOVL	R2,	4(\$P) P)	
				000000006	00 56	04	02 FB 50 DO	00112		CALLS	#2. RO.	LIBSGET VM VM STATUS	
	52		00		07 6E		56 E9 00 20	0011C 0011F		BLBC MOVC5	WO.	LIBSGET VM VM STATUS STATUS, 158 (SP), #0, R2, @COMBINED_LINE	
				0000	CF SE CF	0000	56 DO CF E8	00126	15\$:	MOVL			0977
			16	0000°	CF	0000	03 E1	00130 00136		BBC PUSHL	#3.	TAED_L_FLAGS, 16\$	0977 0980
				000000006	00		15 DD 02 FB 01 DD	00138 0013A 00141		BBC PUSHL PUSHL CALLS PUSHL CALLS PUSHL CALLS BBC	#21	STATUS, AED_L_STATUS _L_STATUS, T9\$ _AED_L_FLAGS, 16\$ SCRSERASE_PAGE	
				000000006	00	00001	15 DD 02 FB CF DD	00143	140.	PUSHL	#21 #21	SCR\$SET_CURSOR	
			11	000000006	00 CF	0000°	01 FB 03 E1	00145 00146 00150 00157	165:	CALLS		SCR\$SET_CURSOR L_STATUS LTB\$SIGNAL AED_L_FLAGS, 17\$	

AEI

TO ME OF ACTIONS OF AC

						K 11 15-Sep-1984 23:59:16 YAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:52:32 [ACLEDT.SRCJAEDSUBR.832;1	Page (5)
		C	00000006	7E 7E 00 50	0000° CF	9A 00150 9A 00162 FB 00167 CALLS #2, SCRSSET CURSOR 93 00173 BITB R0, #7 13 00176 BEQL 18\$ EXTZV #0, #3, AED_L_WORSTERR, R1 18 00186 BGEQ 18\$ DO 00186 MOVL RO, AED_L_WORSTERR	
51 51	0000°	50 CF		03	13 00 00 05	13 00176 BEQL 188 EF 00178 EXTZV #0. #3, R0, R1 ED 0017D CMPZV #0. #3, AED_L_WORSTERR, R1 18 00184 BGEQ 188	
			0000	CF	05 50	18 00184 BGEQ 188 00 00186 MOVL RO, AED_L_WORSTERR 31 00188 188: BRW 40\$	
			04	BC	0250 08 A7 04 AE	31 UU105 103: BRW 4U3	0981 0984 0985
			08	BC 56 A6 6E 5B	08 A7	3C 0018E 19\$: MOVZWL 8(PREV LINE), aPOSITION DO 00193 BO 00197 MOVW R9, 8(R6) 3C 0019B MOVZWL 8(PREV LINE), (SP) 3C 0019F MOVZWL 8(NEW TEXT LINE), R11 3C 001A3 MOVZWL 8(R6), R10 9E 001A7 MOVAB 20(R6), R9 2C 001AB MOVCS (SP), 20(PREV_LINE), #0, R10, (R9)	
				5B 5A	08 A5 08 A6 08 A6	3C 0019F MOVZWL 8(NEW_TEXT_LINE), R11 3C 001A3 MOVZWL 8(R6), R10 9E 001A7 MOVAB 20(R6), R9 2C 001AB MOVCS (SP), 20(PREV_LINE), #0, R10, (R9)	0986 0987 0989
5A		00	14	5A 59 A7	14 A6	DO 00193 MOVL COMBINED LINE, R6 BO 00197 MOVW R9, 8(R6) 3C 0019B MOVZWL 8(PREV LINE), (SP) 3C 0019F MOVZWL 8(NEW TEXT LINE), R11 3C 001A3 MOVZWL 8(R6), R10 9E 001A7 MOVAB 20(R6), R9 2C 001AB MOVCS (SP), 20(PREV_LINE), #0, R10, (R9)	
5A		00	14	59 5A A8	04 AE 08 A7 08 A8 08 A6 14 A6 69 00 6E 5B	18 001B2 BGEQ 20\$ C0 001B4 ADDL2 (SP), R9 C2 001B7 SUBL2 (SP), R10	
			04	04	0A A7	00100	0990
		04	OA	A8	01	88 001C5 BISB2 #1, 10(R6) E1 001C9 21\$: BBC #1, 10(NEW_TEXT_LINE), 22\$ 88 001CE BISB2 #2, 10(R6)	0991
			0A 0A 0C 10	04 A6 A6 A6 A6 A6 A7	0C A7	DO 001D2 225: MOVL 12(PREV_LINE), 12(R6) 90 001D7 MOVB 16(PREV_LINE), 16(R6)	0992 0993
			04	87 52	04 AE	DU DUICU MUYL LUMBINED LINE, RE	0992 0993 0994 0995
			0000v 04	CF B2 57	0000' CF 0000' CF 0000' CF	DD 001E4 FB 001E6 OE 001EB D1 001F1 12 001F6 9E 001F8 D1 001FF 238: CMPL AED LASTLINE, NEW TEXT LINE D1 00204 9E 00206 D1 00204 9E 00206 D1 00202 9E 00216 D1 00214 CMPL AED LASTLINE, NEW TEXT LINE D1 00214 D1 00214 CMPL AED LBEGINLINE, PREV LINE D2 00219 PE 00218 DE 00218 DE 00218 DE 00219 PE 00226 D1 00220 D2 00220 D2 00220 D3 00220 D4 00000 D5 000000 D6 00000000000000000000000000000	0996 0997
			0000	CF 58	0000° CF	9E 001F8 MOVAB AED_T_CURLINE, AED_L_FIRSTLINE D1 001FF 238: CMPL AED_L_LASTLINE, NEW_TEXT_LINE 12 00204 BNEG 248	0998
			0000	CF 57	0000° CF 0000° CF 07	9E 00206 BNEQ 248 9E 00206 MOVAB AED_T_CURLINE, AED_L_ASTLINE 01 0020D 248: CMPL AED_L_BEGINLINE, PREV_LINE	0999
				58	07	DI 0020D 248: CMPL AED_L_BEGINLINE, PREV_LINE 13 00212 BEGL 258 DI 00214 CMPL AED_L_BEGINLINE, NEW_TEXT_LINE	. 0777
			0000°	CF AE	0000° CF	12 00219 9E 0021B 258: MOVAB AED T CURLINE, AED L BEGINLINE 0F 00222 268: REMQUE (PREV_LINE), REMOVED_LINE	1000
			80		67	OF 00222 268: REMQUE (PREVILINE), REMOVED_LINE PUSHAB REMOVED_LINE	1000 1001 1003
			04	SO AE AE	08 AE 0C AE 08 A0	00 00229 MOVL REMOVED LINE, RO 3C 0022D MOVZUL 8(RO), 4(SP)	
		0	00000000		04 AE	CO 00232 ADDL2 #20, 4(SP) 9F 00236 PUSHAB 4(SP) FB 00239 CALLS #2, LIBSERFE VM	
			80	AE	08 AE 00 AE 08 AE 04 AE 06 AE	9E 0021B 258: MOVAB AED T CURLINE, AED L BEGINLINE 0F 00222 268: REMQUE (PREV LINE), REMOVED LINE 9F 00226 PUSHAB REMOVED LINE, RO 3C 0022D MOVZWL 8(RO), 4(SP) CO 00232 ADDL2 #20, 4(SP) 9F 00236 PUSHAB 4(SP) 6FB 00239 CALLS #2, LIB\$FREE VM 0F 00240 REMQUE (NEW TEXT LINE), REMOVED LINE 9F 00244 PUSHAB REMOVED LINE 0F 00247 MOVL REMOVED LINE, RO	1004 1006
				50	OC AE	DO 00247 MOVL REMOVED_LINE, RO	

AED\$SUBR V04-000					15-Sep-1984 14-Sep-1984	23:59:16 11:52:32	VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1	Page 25
0000° CF	08	04 04 000000006 A0	AE 00	8 A0 14 AE 4 AE 00 00 00 00 00 00 00 00	3C 0024B MO CO 00250 AD 9F 00254 PU FB 00257 CA DO 0025E MO ED 00262 CM 14 0026A BG	VZUL 8(R) DL2 #20 ISHAB 4(SI NLLS #2, VL COMMITTE 27\$ IN 28\$	4(SP) 4(SP) LIB\$FREE_VM BINED_LINE, RO #16, 8(RO), AED_L_PAGEWIDTH	1007
	OC	AE 0000° FAE6 0000° 0000°	CF 000	01	DD 00271 PU D4 00273 CL	RL -(SI		1011 1012 1013
		0000v 0000G	7E 000 CF CF 7E 000	0' CF 02 C AE 01	C3 00275 9F 0027C FB 0027F 9F 00284 PU FB 00288 B0 0028D M0 9E 00293 DD 00299 PA 00298 FB 002A0 PF 002A5 FB 002A5 FB 002AB AC 002AD D6 002B2 PA 002B4 FB 002B9 D6 002C5 PD 002C6 PD 002	ISHL #1 IVZBL AED ILLS #2 ISHAB OUTI ILLS #1, IVZWL AED ICL (SP)	B LINE, -(SP) AED SET CURSOR PUT DESC AED PUTOUTPUT T_CURLINE+8, -(SP)	1014 1015 1016
		000000006 0C 10	7E 000 58 000 AE 6 AE 7E 000	0° DF 8 A8 4 A8	9A 002B4 MO FB 002B9 CA DO 002C0 MO BO 002C5 MO DD 002CF PU 9A 002D1 MO D6 002D6 IN	ILLS #2, IVL BAEI IVW 8(NI IVAB 20(I ISHL #1	SCRSERÁSE LINE T CURLINE, NEW TEXT LINE TEXT LINE), OUTPUT DESC RST, OUTPUT DESC+4	1017 1018 1019 1020
		0000v	CF CF 7E	02 C AE 01 8 A8 6E	D6 002D6 IN FB 002D8 CA 9F 002DD PU FB 002E0 CA 3C 002E5 MO D6 002E9 IN	ICL (SP) ILLS #2, ISHAB OUTI ILLS #1, IVZWL 8(NI	AED_SET_CURSOR PUT_DESC AED_PUTOUTPUT EW_TEXT_LINE), -(SP)	1021 1022
		000000006	7E 000	02 5F	FB 002F2 CA	ICL (SP)	SCRSERASE_LINE	1007 1026
		0000V	CF 000	0' CF 51		LLS #1. IPB AED. ITRU 328	T CURLINE AED POSITION B_LINE. #10	1033
		00000000G	CF 00 58 000 53	01 02 00 00 00 00 00 00 00 00 00 00 00 00	1A 00309 DD 0030B PU DD 0030D FB 0030F FB 00314 D0 0031B 9A 00320 D4 00325 11 00327 B0 00329 PE 0032E DD 00333	ISHL #20 LLS #2. LLS #0. IVL AED IVZBL AED	AED SET CURSOR SCRSUP SCROLL L BEGINLINE, NEW_TEXT_LINE B_LINE, R3	1037 1038 1039
		0C 10	AE (8 A8 4 A8 01	9A 00320 D4 00325 11 00327 B0 00329 29\$: MO 9E 0032E DD 00333 PU	B 30%	TEXT_LINE), OUTPUT_DESC	1042 1043 1044

AED VO4

AED\$SUBR V04-000				15-Sep-1984 23:59:16 VAX-11 Bliss-32 V4.0-742 LACLEDT.SRCJAEDSUBR.B32;1	Page (26 (5)
		0000v 0000G	CF CF 7E OC	\$2 DD 00335 02 FB 00337 AE 9F 0033C 01 FB 0033F AE 3C 00344 6E D6 00348 52 DD 0034A 02 FB 0035C CALLS #1 AEB PUTOUTPUT MOVZWL OUTPUT_DESC, -(SP) (SP) 52 DD 0034A 02 FB 0034C 68 D0 00353 53 F3 00356 308: AOBLEQ R3 J, 298 68 11 0035A 318: BRB 05 E1 0035C 328: BBC 05 E1 0035C 328: BBC 05 FB 0036C 05 11 00367 05 DF 000369 05 DF 000375 07 DF 0003	1045 1046
		000000006 CF	00 58 52	52 DD 0034A PUSHL J 02 FB 0034C CALLS #2, SCR\$ERASE_LINE 68 DO 00353 MOVL (NEW_TEXT_LINE), NEW_TEXT_LINE 53 F3 00356 30\$: AOBLEQ R3, J, 29\$ 68 11 0035A 31\$: BRB 38\$ 05 E1 0035C 32\$: BBC #5, AED_L_FLAGS, 33\$	1047 1039 1033 1052 1053
		07 0000°	CF 58 0000	68 11 0035A 318: BRB 38\$ 05 E1 0035C 328: BBC #5, AED L FLAGS, 33\$ CF 9E 00362 MOVAB AED T CURLINE, NEW TEXT LINE 05 11 00367 BRB 34\$	1052 1053
			58 0000 52 0000	05 11 00367 CF DO 00369 338: MOVL AED T CURLINE, NEW TEXT LINE CF 9A 0036E 348: MOVZBL AED B LINE, J 52 D7 00373 DECL J	1054 1055
			50 0000 50	CF 9E 00377 358: MOVAB AED_Q_LINETABLE, RO	1058
			14	52 D1 00381 CMPL J, #20 3E 18 00384 BGEQ 38\$ 01 DD 00386 PUSHL #1	1061
		000000006	00	52 DD 00388 PUSHL J 02 FB 0038A CALLS #2. SCR\$ERASE_PAGE 31 11 00391 BRB 38\$	1060
		0C 10	AE 08	A8 B0 00393 368: MOVW 8(NEW TEXT LINE), OUTPUT_DESC A8 9E 00398 MOVAB 20(R8), OUTPUT_DESC+4 01 DD 0039D PUSHL #1 52 DD 0039F PUSHL J 02 FB 003A1 CALLS #2, AED SET_CURSOR AE 9F 003A6 PUSHAB OUTPUT DESC 01 FB 003A9 CALLS #1, AED PUTOUTPUT AE 3C 003AE MOVZWL OUTPUT_DESC, -(SP)	1060 1064 1065 1066
		0000v	CF OC	02 FB 003A1 CALLS #2, AED SET_CURSOR AE 9F 003A6 PUSHAB OUTPUT_BESC	1067
		00006	7E 00	AE 9F 003A6 PUSHAB OUTPUT BESC 01 FB 003A9 CALLS #1, AEB PUTOUTPUT AE 3C 003AE MOVZWL OUTPUT BESC, -(SP) 6E 06 003B2 INCL (SP) 52 DD 003B4 PUSHL J	1068
		000000006	00	6E D6 003B2 INCL (SP) 52 DD 003B4 PUSHL J 02 FB 003B6 CALLS #2, SCR\$ERASE_LINE 68 D0 003BD MOVL (NEW_TEXT_LINE), NEW_TEXT_LINE	1069
	0000°	B3 CF 04	52 BC 7E 0000	01 81 003C0 378: AOBLEG #20, J. 358 01 81 003C4 388: ADDB3 #1, aPOSITION, AED B COLUMN	1069 1055 1073 1074
		0000V	CF 50	02 FB 003D5 CALLS #2, AED_SET_CURSOR 01 D0 003DA 398: MOVL #1, RO 04 003DD RET	1076
				04 003DD RET 50 D4 003DE 40\$: CLRL RO 04 003EO RET	1078

; Routine Size: 993 bytes, Routine Base: \$CODE\$ + 0398

```
AED$SUBR
V04-000
                                                                                                                                            VAX-11 Bliss-32 V4.0-742 
CACLEDT.SRCJAEDSUBR.B32;1
                                      GLOBAL ROUTINE AED_COPSEGMENT (SEGMENT_ADDR) =
    FUNCTIONAL DESCRIPTION:
                                                   This routine copies the specified line segment to the current line working storage area.
                                         CALLING SEQUENCE:
AED_COPSEGMENT (ARG1)
                                         INPUT PARAMETERS:
                                                   ARG1: address of the desired line segment
                                         IMPLICIT IMPUTS:
                                                   AED_T_CURLINE: current line working storage AED_Q_LINETABLE: line segment list head
                                         OUTPUT PARAMETERS:
                                                   none
                                         IMPLICIT OUTPUTS:
                                                   none
                                         ROUTINE VALUE:
                                                  none
                                         SIDE EFFECTS:
                                                  none
                                      BEGIN
                                      MAP
                                                   SEGMENT_ADDR
                                                                            : REF $BBLOCK;
                                      IF .SEGMENT_ADDR NEGA AED Q LINETABLE
THEN CH$MOVE ($BYTEOFFSET(LINE_T TEXT), .SEGMENT_ADDR, AED T CURLINE);
CH$MOVE (.SEGMENT_ADDR[LINE_W_SIZE], SEGMENT_ADDR[LINE_T_TEXT]),
AED T CURLINE[LINE_T_TEXT]);
AED_T_CURLINE[LINE_V_REPLACE] = 1;
                         1118
1119
1120
1121
                                      RETURN 1:
                                      END:
                                                                                                                  ! End of routine AED_COPSEGMENT
                                                                                               00000
00008
0000B
                                                                                       007C
00
9E
5 D1
5 13
                                                                                                                                  AED COPSEGMENT, Save R2,R3,R4,R5,R6
SEGMENT ADDR, R6
AED Q LINETABLE, RO
R6, R0
                                                                                                                                                                                                           1079
                                                                                                                      .ENTRY
                                                                        0000
                                                              56
50
50
                                                                                                                      MOVL
                                                                                                                      BAVOM
                                                                                                                                   R6.
                                                                                                                      CMPL
                                                                                                                      BEQL
```

AED VO4

000

Routine Base: \$CODE\$ + 0779

```
15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
V04-000
                                                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
[ACLEDT.SRC]AEDSUBR.B32;1
                                                             AED W TOTALSIZE = .AED W TOTALSIZE + .SEGMENT SIZE;
CHSFICL (0, 512 + $BYTEOFFSET (LINE T TEXT), AED_T_CURLINE);
IF .AED L BEGINLINE EQLA AED T CURLINE
THEN AED C BEGINLINE = .NEW TEXT LINE;
IF .AED C FIRSTLINE EQLA AED T CURLINE
THEN AED C CASTLINE = .NEW TEXT LINE;
IF .AED C CASTLINE EQLA AED T CURLINE
THEN AED C LASTLINE = .NEW TEXT LINE;
IF .NEW_TEXT_LINECLINE_V_REPLACE]
THEN

BEGIN
       1183
1184
1185
1186
1188
1189
1190
1191
1193
                                                                     BEGIN

NEW TEXT_LINE[LINE V REPLACE] = 0;

REMQUE (.NEW TEXT_CIRE[LINE L FLINK], REMOVED_LINE);

AED W TOTALSIZE = .AED W TOTACSIZE - .REMOVED_LINE[LINE_W_SIZE];

DEACLOCATE (.REMOVED_LINE[LINE_W_SIZE] +

$BYTEOFFSET (LINE_T_TEXT),

REMOVED_LINE);
                                          1194
1195
1196
1197
                                          1198
                                            199
                                          1200
1201
1202
1203
1204
                                                               RETURN .NEW_TEXT_LINE;
                                                               END:
                                                                                                                                                                                             ! End of routine AED_REPSEGMENT
                                                                                                                                                                             SEGMENT_SIZE=
                                                                                                                                                                                                                                 AED_T_CURLINE+8
                                                                                                                                                                                                                     AED REPSEGMENT, Save R2,R3,R4,R5,R6,R7,R8
SCR$SET CURSOR, R8
AED T CURLINE, R7
M12. SP
NEW TEXT LINE
SEGMENT SIZE, 4(SP)
M20, 4(SP)
M20, 4(SP)
M20, 4(SP)
M20 LIBSGET WM
                                                                                                                                                01FC 00000
                                                                                                                                                                                                   ENTRY
                                                                                                                                                                                                                                                                                                                                              1126
                                                                                                             0000
                                                                                                                                                             00002
                                                                                                     58
57
5E
                                                                                                                                                                                                  MOVAB
                                                                                                                                          MOVAB
                                                                                                                                                             0000E
                                                                                                                                                                                                  SUBL 2
                                                                                                                             04
                                                                                                                                                                                                  PUSHAB
                                                                                                                                                                                                                                                                                                                                               1171
                                                                                                                                                                                                  MOVZUL
                                                                                                                                                             00014
                                                                                                                                                            00014
00019
0001D
00027
0002A
0002D
00031
00034
                                                                                                                                                     CO
9F
                                                                                                                             04
                                                                                                                                                                                                  PUSHAB
                                                                                                                                                    FB
DO
                                                                                                                                                                                                                       #2. LIBSGET VM
RO, VM STATUS
VM STATUS, 18
                                                                                                      00
56
0E
50
50
6E
                                                                         00000000G
                                                                                                                                                                                                  CALLS
                                                                                                                                                                                                  MOVL
                                                                                                                                                     20
20
20
20
                                                                                                                                                                                                  BLBC
                                                                                                                                                                                                                      SEGMENT_SIZE, RO
#20, RO
#0, (SP), #0, RO, aNEW_TEXT_LINE
                                                                                                                             08
                                                                                                                                                                                                  MOVZUL
                                                                                                                                                                                                  MOVES
                             50
                                                                  00
                                                                                                                             04
                                                                                                                                                            00039
0003B
0003F
00043
00049
0004B
0004D
00054
00058
0005B
0005B
0005B
00065
00065
                                                                                                      A7
54
C7
                                                                                                                                                                                                                       VM STATUS, AED L STATUS
AED L STATUS, 5$
#3, AED L FLAGS, 2$
                                                                                         DC
                                                                                                                                                                                                  MOVL
                                                                                                                             DC
                                                                                                                                                                                                  BLBS
                                                                                                                                                                                                                                                                                                                                               1172
1175
                                                                 12
                                                                                    FF50
                                                                                                                                                                                                  BBC
                                                                                                                                                      DD
                                                                                                                                                                                                  PUSHL
                                                                                                                                                     DD FB DD FB DD
                                                                                                                                                                                                  PUSHL
                                                                                                                                           15021502
                                                                         000000006
                                                                                                      00
                                                                                                                                                                                                  CALLS
                                                                                                                                                                                                                                SCRSERASE_PAGE
                                                                                                                                                                                                  PUSHL
                                                                                                                                                                                                                      #21
#2, SCR$SET_CURSOR
AED_L_STATUS
#1, LIB$SIGNAL
#3, AED_L_FLAGS. 38
AED_B_CULUMN, -(SP)
AED_B_LINE, -(SP)
                                                                                                                                                                                                  PUSHL
                                                                                                                                                                                                  CALLS
                                                                                                      68
                                                                                                                                                                                                  PUSHL
                                                                                                                              DC
                                                                                                      00
C7
7E
7E
                                                                                                                                                                                                  CALLS
                                                                          00000000G
                                                                                                                                                                                                  BBC
                                                                                                                                                                                                  MOVZBL
```

ALV

AED\$SUBR								1	12 -Sep-1 -Sep-1	1984 23:59 1984 11:52	:16 YAX-11 BLiss-32 V4.0-742 :32 [ACLEDT.SRC]AEDSUBR.B32;1	Page 31
					68 50 07	DC	02 A7 50	B 00075 00 00078 93 0007C	38:	CALLS MOVL BITB	#2, SCR\$SET_CURSOR AED_L STATUS, RO RO, #7	
	51 51	FF64	50 67		03 03		00	13 0007F EF 00081 ED 00086		EXTZV	#0. #3. RO, R1 #0. #3. AED_L_WORSTERR, R1	
				FF64	c7	08	08E	18 0008D 00 0008F 31 00094 3C 00097	45: 55:	MOVL BRW MOVZWL	RO AED_L_WORSTERR 118 SEGMENT SIZE, RO	1176
			66		50 56 67	04 08	AE 50	3C 00097 CO 00098 DO 0009E 28 000A2 B5 000A6 12 000A9		BEQL EXTZV CMPZV BGEQ MOVL BRW MOVZWL ADDLZ MOVL MOVC3 TSTW BNEQ BISB2 INSQUE REMOUE	SEGMENT_SIZE, RO #20, RO NEW_TEXT_LINE, R6 RO. AED_T_CURLINE, (R6) SEGMENT_SIZE	1179
				0A 08 0214	A6 67 AE C7	08	67	88 000AB 0E 000AF 0F 000B2	6\$:	BNEQ BISB2 INSQUE REMQUE	#4, 10(R6) (R6), AED T CURLINE AED T CURCINE, REMOVED LINE SEGMENT SIZE, AED W TOTALSIZE #0, (SP7, #0, #532, AED_T_CURLINE	118 118 118 118
0214	8F		00	0214	6E	00	A7 00 67 67	AO 000B6 2C 000BC 000C3 9E 000C4				118
				98	50 50 A7	98 04	A7 05	D1 000C7 12 000CB		MOVAB CMPL BNEQ	AED_T_CURLINE, RO AED_L_BEGINLINE, RO 78 NEW TEXT LINE, AED L REGINLINE	
				76	A7 50 50	90		DO 000CD PE 000D2 D1 000D5 12 000D9 D0 000D8	7\$:	MOVAB CMPL BNEQ	NEW TEXT LINE, AED_L_BEGINLINE AED_T_CURLINE, RO AED_L_FIRSTLINE, RO 8\$	1186
				90	A7 50 50	04 94	AE 67	0000B 9E 000E0 01 000E3 12 000E7 00 000E9 00 000EE 1 000F2 BA 000F7	88:	MOVL MOVAB CMPL	NEW_TEXT_LINE, AED_L_FIRSTLINE AED_T_CURLINE, RO AED_L_LASTLINE, RO	1186 1189
			29	94 0A	A7 50	04	AE	000E9 0000EE 1 000F2	98:	MOVL	NEW_TEXT_LINE, AED_L_LASTLINE NEW_TEXT_LINE, RO #3. 10(RD), 10s	1190 1191
			6,7	0A 0A 08	A0 AE 50 C7	00	08 80	BA 000F7 0F 000FB		MOVL BBC BICB2 REMQUE	#8, 10(R0) a0(R0), REMOVED_LINE REMOVED_LINE, RO	119 119 119
				0214 04 04	ČŽ AE	00 08 08 08 08	AO	00 00100 A2 00104 9F 0010A 3C 0010D C0 00112		MOVL SUBW2 PUSHAB MOVZWL ADDL2 PUSHAB CALLS	NEW_TEXT_LINE, AED_L_LASTLINE NEW_TEXT_LINE, RO #3, 10(RO), 10\$ #8, 10(RO) a0(RO), REMOVED_LINE REMOVED_LINE, RO 8(RO), AED_W_TOTALSIZE REMOVED_LINE 8(RO), \$(SP) #20, \$(SP) #2, LIBSEREE_VM	1199
				000000006	90	04	02	9F 00116	10\$:	MOVL	4(SP) #2. LIBSFREE VM NEW_TEXT_LINE, RO	1202
							50	FB 00119 00 00120 04 00124 04 00125 04 00127	118:	RET CLRL RET	RO	1204

Routine Base: \$CODE\$ + 07A0

; Routine Size: 296 bytes.

VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1

Page 32 (8)

This routine positions the cursor to the selected line. If necessary it will also scroll up or down the display so that the selected line may be viewed.

ARG1: address of the line segment to position to

AED_L_BEGINLINE: address of the first line of the display AED_G_LINETABLE: address of the line table list head AED_B_LINE: the current line position within the display

AED_L_BEGINLINE: address of the first line of the display AED_B_LINE: the current line position within the display

The display is scrolled as necessary to view the selected line

! Address of the segment

! First line of display seen

OUTPUT DESC NEXT TEXT LINE POS_FLAGS : \$BBLOCK [DSC\$C_S_BLN], ! Output line descr : REF \$BBLOCK, ! Address of next line segment : \$BBLOCK [1]; ! Local positioning flags

! Quick check to see if the cursor must move at all.

AED_B_LINE = 1: IF .LINE_ADDRESS EQL .AED_L_BEGINLINE THEN RETURN;

Traverse the line segment table looking for the selected line segment and the current first line of the display. This will determine if any scrolling

```
is needed and what the direction will be. If the selected line occurs before the first line of the display, it will be necessary to scroll down. If the selected line occurs after the first line, it will be necessary to scroll up.
                           | 262
| 263
| 265
| 266
| 267
| 268
| 270
| 271
NEXT_TEXT_LINE = .AED_Q_LINETABLE[LINE_L_FLINK];
POS_FLAGS[POS_BEGIN_SEEN] = 0;
                                          UNTIL .NEXT_TEXT_LINE EQL .LINE_ADDRESS
                          .NEXT_TEXT_LINE EQL .AED_L_BEGINLINE
                                                  THEN
                                                         BEGIN
POS_FLAGS[POS_BEGIN_SEEN] = 1;
EXITLOOP;
                                                  NEXT_TEXT_LINE = .NEXT_TEXT_LINE[LINE_L_FLINK];
                                                  END:
                                          NEXT_TEXT_LINE = .AED_L_BEGINLINE;
                                          IF .POS_FLAGS[POS_BEGIN_SEEN]
THEN
                                                                                                                                           ! Move forward/scroll up
                                                  UNTIL .NEXT_TEXT_LINE EQL .LINE_ADDRESS
                                                          NEXT_TEXT_LINE = .NEXT_TEXT_LINE(LINE_L_FLINK);
IF .AED_B_LINE LSS 20
THEN AED_B_LINE = .AED_B_LINE + 1
                                                          ELSE
                                                                  BEGIN
                                                                 AED_SET_CURSOR (20, 1); ! **** TEMP ****

SCR$UP_SCROLL ();

AED_L_BEGINLINE = .AED_L_BEGINLINE(LINE_L_FLINK);

AED_SET_CURSOR (20, 1);

OUTPUT_DESC(DSC$W_LENGTH) = .NEXT_TEXT_LINE(LINE_W_SIZE);

OUTPUT_DESC(DSC$A_POINTER) = NEXT_TEXT_LINE(LINE_T_TEXT];

AED_PUTOUTPUT (OUTPUT_DESC);
                                                                  END:
                                                          END:
                                                  END
                                          ELSE
                                                                                                                                           ! Move backward/scroll down
                                                  UNTIL . NEXT_TEXT_LINE EQL .LINE_ADDRESS
                                                         NEXT TEXT LINE = .NEXT_TEXT_LINE[LINE_L_BLINK];
AED_SET_CORSOR (1, 1);
SCR$DOWN_SCROLL ();
SCR$ERASE_PAGE (21, 1);
AED_SET_CORSOR (1, 1);
OUTPUT_DESC[DSC$W_LENGTH] = .NEXT_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = NEXT_TEXT_LINE[LINE_T_TEXT];
AED_PUTOUTPUT (OUTPUT_DESC);
                                                                                           .NEXT_TEXT_LINECLINE_L_BLINK];
                                                  AED_L_BEGINLINE = .NEXT_TEXT_LINE;
```

15-Sep-1984	23:59:16	VAX-11 Bliss-32 V4.0-742
14-Sep-1984	11:52:32	EACLEDT.SRCJAEDSUBR.B32;1

! End of routine AED_POSITION

	54 55 5E	0000v	CF CF	9E 00002		ENTRY MOVAB MOVAB	AED_POSITION, Save R2,R3,R4 AED_SET_CURSOR, R4 AED_L_BEGINLINE, R3	1205
DC	5E A3 50 50	04	08 01 63	C2 0000C 90 0000F 00 00013		SUBL 2 MOVB MOVL CMPL	#8, SP #1, AED B LINE AED L BEGINLINE, RO LINE ADDRESS, RO	1257 1258
04	52 51 AC	E8	52	01 00016 13 0001A 00 0001C 8A 00020 01 00023 13 00027	1\$:	BEQL MOVL BICB2 CMPL BEQL	AED_Q_LINETABLE, NEXT_TEXT_LINE #1, POS_FLAGS NEXT_TEXT_LINE, LINE_ADDRESS	1266 1267 1269
	50 51		52 05 01 05	01 00023 13 00027 01 00029 12 0002C 88 0002E 11 00031 00 00033		CMPL BNEQ BISB2 BRB	NEXT_TEXT_LINE, RO 2\$ #1, POS_FLAGS 3\$	1272 1275 1274
	52 52 3E AC		50	00 00038 E9 0003B	28: 38:	MOVL BRB MOVL	(NEXT_TEXT_LINE), NEXT_TEXT_LINE 18 RO, NEXT_TEXT_LINE POS_FLAGS, 75 NEXT_TEXT_LINE, LINE_ADDRESS	1275 1274 1278 1269 1281 1283 1286
04	AC 52 14	DC	77 62 A3	01 0003E 13 00042 00 00044 91 00047	48: 58:	BLBC CMPL BEQL MOVL CMPB	(NEXT_TEXT_LINE), NEXT_TEXT_LINE AED_B_LINE, #20	1286 1289 1290
		DC	EC O	1E 0004B 96 0004D 11 00050 DD 00052	68:	BGEQU INCB BRB PUSHL	AED_B_LINE	1291 1294
00000000G	64 00 73		02 00 93	DD 00054 FB 00056 FB 00059 DD 00063		PUSHL CALLS CALLS MOVL PUSHL	#20 #2, AED_SET_CURSOR #0, SCRSUP_SCROLL BAED_L_BEGINLINE, AED_L_BEGINLINE #1 #20	1295 1296 1297
04	64 6E AE	08 14	95 85 05	DD 00065 FB 00067 BO 0006A 9E 0006E DD 00073 FB 00075		PUSHL CALLS MOVW MOVAB PUSHL	#20 #2, AED_SET_CURSOR 8(NEXT_TEXT_LINE), OUTPUT_DESC 20(R2), OUTPUT_DESC+4 SP	1298 1299 1300
0000G	CF		01 C2	DD 00073 FB 00075 11 0007A		PUSHL CALLS BRB	#1. AED_PUTOUTPUT	
04	AC		52 36	01 0007C	78:	BEQL	NEXT_TEXT_LINE, LINE_ADDRESS	1286 1306
	52	04	01	00 00082 00 00086 00 00088		MOVL PUSHL PUSHL	4(NEXT_TEXT_LINE), NEXT_TEXT_LINE	1309 1310
000000006	00			FB 0008A		CALLS	#2. AED_SET_CURSOR #0, SCR\$DOWR_SCROLL	1311

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AED\$SUBR V04-000					1 12 15-Sep- 14-Sep-	1984 23:59: 1984 11:52:	16 VAX-11 BLiss-32 V4.0-742 LACLEDT.SRCJAEDSUBR.832;1	Page 35 (8)
	00000000G 04 0000G	00 64 6E AE CF 63	08	015001 010001 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 0100	DD 00094 DD 00096 FB 00098 DD 0009F DD 000A1 FB 000A3 BO 000A6 9E 000AA DD 000AF FB 000B1 11 000B6 DO 000BB 8\$:	PUSHL PUSHL CALLS MOVW MOVAB PUSHL CALLS BRB	#1 #2. SCR\$ERASE_PAGE #1 #2. AED_SET_CURSOR #(NEXT_TEXT_LINE), OUTPUT_DESC 20(R2), OUTPUT_DESC+4 SP #1. AED_PUTOUTPUT 7\$ NEXT_TEXT_LINE, AED_L_BEGINLINE	1312 1313 1314 1315 1316 1306 1318 1323

; Routine Size: 188 bytes. Routine Base: \$CODE\$ + 08C8

IF .TOTAL_SIZE EQL O THEN RETURN 1;

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Page

```
AED$SUBR
V04-000
```

```
Concatenate all of the text line segments together, and convert to a binary ACE. Any errors are signaled as syntax errors.
AED_L_LASTLINE[LINE_V_ENDACE] = 1;
LOCAL_STATUS = ALLOCATE (.TOTAL_SIZE, AED_A_ACLBUFFER);
IF_NOT .LOCAL_STATUS
                 SIGNAL (.LOCAL STATUS);
RETURN .LOCAL STATUS;
 END;
CURRENT LINE = .AED_L_FIRSTLINECLINE_L_BLINK];
APPEND_INDEX = 0;
                CURRENT_LINE = .CURRENT_LINE(LINE L_FLINK);
CHSMOVE (.CURRENT_LINE(CINE W_SIZE), CURRENT_LINE(LINE_T_TEXT),
AED_A_ACCBUFFER(.APPEND_INDEX, 0, 8, 01);
APPEND_INDEX = .APPEND_INDEX + .CURRENT_LINE(LINE_W_SIZE);
UNTIL .CURRENT_LINE EQL .AED L_LASTLINE;
ACE_DESC[DSC$W_LENGTH] = ACL$S_READACL;
ACE_DESC[DSC$A_POINTER] = NEW_ACE;
ACE_TEXT_DESC[DSC$W_LENGTH] = .TOTAL_SIZE;
ACE_TEXT_DESC[DSC$A_POINTER] = .AED_A_ACLBUFFER;
LOCAL_STATUS = $PARSE_ACL (ACLSTR = ACE_TEXT_DESC,
ACLENT = ACE_DESC,
A
                                                                                                            ERRPOS = CHAR_PROCESSED);
 IF NOT .LOCAL_STATUS
THEN
                 BEGIN
               AED L FLAGS[AED V ACERROR] = 1;
SIGNAL (AEDS SYNTAX, 2, .TOTAL SIZE - .CHAR PROCESSED,
AED A ACLBUFFERE.CHAR PROCESSED, 0, 8, 0],
.LOCAL STATUS, 0);
                 RETURN AEDS_SYNTAX;
NEW_ACE_SIZE = .NEW_ACE[ACE$B_SIZE]; ! In case of a duplicate
       Check for a hidden ACE. Since they are application specific, the ACL editor is not allowed to touch them.
 IF .NEW_ACE[ACE$V_HIDDEN]
 THEN
                AED L FLAGS[AED V ACERROR] = 1;
SIGNAL (AED$ NONIDDEN);
RETURN AED$ NOHIDDEN;
        Check for directory default ACEs. If the object is not a directory file,
        note the error.
             .NEW_ACE[ACE$V_DEFAULT] AND NOT .AED_L_FLAGS[AED_V_DIRECTORY]
  THEN
                  AED_L_FLAGS[AED_V_ACERROR] = 1;
```

```
AED$SUBR
V04-000
                                                                                                              15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
LACLEDT.SRCJAEDSUBR.B32;1
                                                SIGNAL (AEDS NODEFAULT);
RETURN AEDS NODEFAULT;
   14390123456789012345456789012345477778901234
1444444444455345678901234578901234577789012348884
                                            Check to see if the I am adding an already existing ACE. If so, warn the user about the duplicate. This means that the text display actually
                                            reflects the true state of the ACL.
                                         CURRENT_LINE = .AED_Q_LINETABLE[LINE_L_FLINK];
UNTIL .CURRENT_LINE EQLA AED_Q_LINETABCE[LINE_L_FLINK]
                                                BEGIN
                                               IF .CURRENT_LINE[LINE V BEGINACE]
AND .CURRENT_LINE[LINE C BINACE] NEQ 0
THEN IF CHSEGL (.NEW ACE SIZE, NEW ACE
.$BBCOCKC.CURRENT_CINE[LINE L BINACE], ACE$B_SIZE],
.CURRENT_LINE[LINE L BINACE], 0)
AND .CURRENT_LINE NEQ .AED_L_FIRSTLINE
                                                         THEN
                                                                BEGIN
                                                               SIGNAL (AEDS_DUPLICATE);
DEALLOCATE (.NEW_ACE_SIZE, AED_L_FIRSTLINECLINE_L_BINACE]);
RETURN AEDS_DUPLICATE;
                                                CURRENT_LINE = .CURRENT_LINECLINE_L_FLINK];
                                         ! If there is an ACE already, deallocate it.
                                         IF .AED_L fIRSTLINECLINE_L_BINACE] NEQ O
THEN DEALCOCATE (.$BBLOCK[.AED_L fIRSTLINECLINE_L_BINACE], ACE$B_SIZE],
AED_L_FIRSTLINECLINE_L_BINACE]);
                                         ! So far, so good. Allocate storage for the binary ACE, and save it.
                                         LOCAL_STATUS = ALLOCATE (.NEW_ACE_SIZE, AED_L_FIRSTLINE[LINE_L_BINACE]);
IF_NOT .LOCAL_STATUS
                                         THEN
                                                BEGIN
                                                SIGNAL (.LOCAL STATUS);
RETURN .LOCAL STATUS;
                                         CHSMOVE (.NEW_ACE_SIZE, NEW_ACE, .AED_L_FIRSTLINE[LINE_L_BINACE]);
                                          RETURN 1:
                                                                                                                           ! End of routine AED_UPDATEACL
                                         END:
                                                                                                                               .EXTRN
                                                                                                                                            SYSSPARSE_ACL
                                                                                              OFFC 00000
                                                                                                                               .ENTRY
                                                                                                                                                                                                                           1324
```

OFFC 00000 .ENTRY AED UPDATEACL, Save R2,R3,R4,R5,R6,R7,R8,- 132
R9,R10,R11
SB 00000000G 00 9E 00002 MOVAB SCRSSET CURSOR, R11
SA 0000 CF 9E 00009 MOVAB AED L FCAGS, R10
SE FDC4 CE 9E 0000E MOVAB -572(SP), SP

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AED\$SUBR V04-000									13	12 -Sep- -Sep-	1984 23:59 1984 11:52	:16	VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1	Page	e 39 (9)
					58	04	AC 03	D0	00013		MOVL		L_SIZE, RB		1379
					50 A0	44	0335 AA 02	31	00019	15:	RRU	378 AED_	L_LASTLINE, RO		1384
				0A		60		8.8 9F	00020		MOVL 81582 PUSHAB MOVL PUSHAB	VED_	L LASTLINE, RO 10(RO) A_ACLBUFFER		1385
				04 00000000G	AE	04	58 AE 02	9F	0002B		PUSHAB	4 (SP	A ACLBUFFER 4(SP)		
				00000000	00 56 07		50 56 00	DÖ E9	00035		CALLS MOVL BLBC MOVC5	RO, VM S	LIB\$GET_VM VM_STATUS TATUS, 2\$ (SP), #0, R8, @AED_A_ACLBUFFER		
	58		00		6E	60	00 BA	50	0003B						
			12		59 46 6A		8A 56 59 03	D0 E8 E1	0004C	28:	MOVL BLBS BBC PUSHL	# 1	TATUS, LOCAL_STATUS L_STATUS, 78 AED_L_FLAGS, 38		1386 1389
				000000006	00		15 02 01 15	DD F B DD DD	00050		BBC PUSHL CALLS PUSHL CALLS PUSHL CALLS BBC MOVZBL MOVZBL CALLS BITB BNEQ	#21	SCR\$ERASE_PAGE		
					6B		02 59	FB	0005B	38:	CALLS PUSHL	#21 #2 LOCA	SCR\$SET_CURSOR L_STATUS LIB\$SIGNAL		
			08	000000006	00 6A 7E 7E 6B 07	20	01 03 AA	FB E1 9A 9A			CALLS BBC MOVZBL MOVZBI	#3, AED_	LIB\$SIGNAL AED_L_FLAGS, 4\$ B_COLOMN, -(SP) B_LINE, -(SP) SCR\$SET_CURSOR L_STATUS, #7		
					6B 07	•	AA 02 59 03	FB 93 12	00076	45:	CALLS BITB BNEG	#2, LOCA 6\$ 35\$	SCRSSET_CURSOR L_STATUS, #7		
	50 50	14	59 AA		03 03		02C2 00 00 F0 02AE AA AO 57	31 Ef ED 18	00079 0007B 0007E 00083 00089 0008B 0009E 00092 00096	68:	BRW EXTZV CMPZV BGEQ BRW	#O.	#3, LOCAL STATUS, RO #3, AED_L_WORSTERR, RO		
					50 56	40	OZAE AA AO	D0 D0 D4	00088 0008E 00092	7\$:	MOVL	348 AED 4(RU	L_FIRSTLINE, RO), CURRENT_LINE		1392
		6C E	BA47	14	56 A6	08	00	00	00098 00098	8\$:	CLRL MOVL MOVC3	(CUR	L_firstline, RO), Current_Line nd index rent_Line), Current_Line irrent_Line), 20(Current_Line), - A_ACCBUfferCappend_Index) irrent_Line), RO append_Index ent_Line, AED_L_LASTLINE		1393 1396 1398
				4.4	50 57	08	A6 50	3C C0 D1	000A3		MOVZWL	8(CU RO,	RRENT LINE), RO APPEND INDEX		1399
				44	AA	0200	20 E8	12	OOOAA		BNEQ	8\$ #512	ENT_LINE, AED_L_LASTLINE		1401
				34 38 20 30	AE AE AE	0200 3C 6C	AE 58	80 9E 80	000B6 000BB		CMPL BNEQ MOVW MOVAB MOVW	NEW_ R8,	ACE_DESC ACE, ACE_DESC+4 ACE_TEXT_DESC A_ACLBUFFER, ACE_TEXT_DESC+4)	•	1402 1403 1404 1405 1408
				30	ME	08 3C 38	A5068FE8ASAAEEEA6059	D0 D4 9F	000A3 000A7 000AA 000AE 000B0 000B6 000BF 000C4 000C6 000CF 000CF 000D6		MOVL CLRL PUSHAB PUSHAB PUSHAB CALLS	-(SP CHAR ACE_	PROCESSED DESC	8 8 8	1408
				000000006	00 59 70 6A	38	AE 040	9F 9F FB DO E8	000CC 000CF 000D6		PUSHAB CALLS MOVL	RO.	PROCESSED BESC TEXT DESC SYSSPARSE ACL LOCAL STATUS L STATUS, 128 AED_L_FLAGS		1400
					6A	40	8F	88	000DC		BISBS BISBS BOVL	#64,	AED_L_FLAGS		1409

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AED\$SUBR									N 12 15-Sep 14-Sep	-1984 23:59 -1984 11:52	: 16	VAX-11 Bliss-32 V4.0-742 FACLEDT.SRCJAEDSUBR.B32;1	Page 40
			12		6A		03	E1 000	030			AED_L_FLAGS, 98	: 1415
				00000000G	00		15 02 01	DD 000 FB 000	E6 E8	PUSHL CALLS PUSHL	#21	SCRSERASE_PAGE	
					68		15 02 7F	DD 000 FB 000 D4 000		BBC PUSHL PUSHL CALLS PUSHL CALLS CLRL PUSHL MOVZWL PUSHAB MOVZWL SUBL3 PUSHL PUSHL CALLS	#21 #2 -(\$)	SCR\$SET_CURSOR	
					50	0C 6C 10	59 AE A40	DD 000		PUSHL MOVZWL	CHAR	AL STATUS R PROCESSED, RO D A ACLBUFFER[RO] R PROCESSED, RO R8, -(SP)	
			7E		50 58	10	AC	3c 00	02	MOVZUL SUBL 3	CHAI RO,	RE, -(SP)	•
			08	000000006	00 6A 7E 7E	20 24	50 02 8F 06 03 AA	DD 001 FB 001 E1 001 9A 001 FB 001	10	PUSHL CALLS BBC MOVZBL MOVZBL CALLS TSTL BEQL CMPZV	#6. #3.	SSYNTAX LIB\$SIGNAL AED L FLAGS, 10\$ B_COLOMN, -(SP) B_LINE, -(SP)	
					68	00000000*	8F	05 00°	28 10\$: 2E	TSTL	113	BLINE, -(SP) SCRSSET CURSOR EDS_SYNTAXE7>	
00000000	8F	14	AA	14	03 AA	000000006	00 08 8F 8F	ED 001 18 001 00 001	30 3A 3C	CMPZV BGEQ MOVL	115	#3, AED_L_WORSTERR, # <aed\$_syntax&7></aed\$_syntax&7>	
					50		8F	00 00°	44 118:	MOVL		D\$_SYNTAX, AED_L_WORSTERR D\$_SYNTAX, RO	1416
			5A 12	3F	AE 6A 6A	3C 40	02 8F 03	E1 00° 88 00° E1 00° DD 00°	50 55 59	MOVB BBC BISB2 BBC PUSHL PUSHL		ACE, NEW ACE SIZE NEW ACE+3, 16\$, AED L FLAGS AED_C_FLAGS, 13\$	1418 1423 1426 1427
				000000006	00			DD 00° DD 00° FB 00° DD 00°	5F 61 68	CALLS PUSHL	#21 #2,	SCRSERASE_PAGE	
			08	000000006	68 00 6A 7E	00000000G	15 02 8F 01 03	DD 001 FB 001 DD 001 FB 001 E1 001 9A 001	6C 6F 138: 75 7C 80	CALLS PUSHL	#21 #AEI	SCR\$SET_CURSOR D\$_NOHIDDEN L_TR\$SIGNAL	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
					7E 68	00000000*	02 8F	9A 00' FB 00' D5 00'	84 88 8B 148:	BBC MOVZBL MOVZBL CALLS TSTL BEQL CMPZV	WED.	AED_L_FLAGS, 14\$ B_COLOMN, -(SP) B_LINE, -(SP) \$CR\$SET_CURSOR ED\$_NOHIDDEN&7>	•
00000000	8F	14	AA		03		00	13 00° ED 00° 18 00° DO 00°	91	BEQL CMPZV BGEQ	15\$ #0 15\$	#3, AED_L_WORSTERR, # <aed\$_nohidden&7></aed\$_nohidden&7>	
				14	AA 50	00000000G	00 08 8F 8F	DO 00.	A7 158:	MOVL MOVL RET	MAE	DS_NOHIDDEN, AED_L_WORSTERR DS_NOHIDDEN, RO	1428
			5A	02	SF AA 6A	3F	AE 02	E0 00.	AF 168:	BLBC BLSB2	WEW.	ACE+3, 208 AED_L_FLAGS+2, 208 AED_L_FLAGS AED_L_FLAGS, 178	1434
			12		6A	40	8F 03	88 00° E1 00°	BC	BISB2 BBC PUSHL	#3.	AED_C_FLAGS 178	1437 1438
				000000006	00		15	DD 00 DD 00 FB 00	C2	PUSHL	#21	SCR\$ERASE_PAGE	

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AED\$SUBR V04-000									1	8 13 5-Sep- 4-Sep-	1984 23:59 1984 11:52	: 16 : 32	VAX-11 Bliss-32 V4.0-742 Par EACLEDT.SRCJAEDSUBR.832;1	ge 4
			08	000000006	68 00 6A 7E 7E 68	000000006 20 24 000000000*	01 152 8F 03 AA 02F	DDD FB DD FB DA A A A A A A A A A A A A A A A A A A	001CF 001D8 001D8 001DF 001E3 001E7	17\$: 18\$:	PUSHL PUSHL CALLS PUSHL CALLS BBC MOVZBL CALLS TSTL BEQL CMPZV BGEQ MOVL MOVL RET	#AED	SCRSSET CURSOR S NODEFAULT LIBSSIGNAL AED L FLAGS, 188 B COLOMN, -(SP) B LINE, -(SP) SCRSSET CURSOR DS_NODEFAULTE7>	
*00000000	8F	14	AA		03		00	13 ED	001F4 001F6 00200		BEQL	19\$ #0 19\$	#3, AED_L_WORSTERR, # <aeds_nodefaulte7></aeds_nodefaulte7>	
				14	AA 50	00000000G	00 08 8f 8f	000	00202	19\$:	MOVL	#AED	S_NODEFAULT, AED_L_WORSTERR S_NODEFAULT, RO	1439
					56 50 50	30 30	AA 56 03	9E	00212 00216 0021A	20 \$: 21 \$:	MOVL MOVAB CMPL BNEQ BRW BLBS BRW TSTL		Q_LINETABLE, CURRENT_LINE Q_LINETABLE, RO ENT_LINE, RO	144
					03	0A 0C	0092 A6 0085 A6	31 E8 31	0021p 0021f 00222 00226 00229	22 \$: 23 \$: 24 \$:	BRW BLBS BRW TSTI	10(C	URRENT_LINE), 24\$ URRENT_LINE)	1450 1451
50	50		00	30	51 50 AE	0C 0C	F8 57 B6 51	13 9A 9A 20	0022C	5401	BEQL MOVZBL MOVZBL CMPC5	255	ACE_SIZE, R1 CURRENT_LINE), R0 NEW_ACE, #0, R0, @12(CURRENT_LINE)	145 145 145
				40	AA		86 6F 56	12	0023D 0023F		BNEQ	28\$ CURR	ENT_LINE, AED_L_FIRSTLINE	145
			12		6A		69 03 01	E1 DD	00245		BNEQ CMPL BEQL BBC PUSHL		AED_L_FLAGS, 25\$	1458
				00000000G	00		15 02 01 15	DD FB DD DD FB	0024B		PUSHL CALLS PUSHL PUSHL	#1	SCRSERASE_PAGE	
			08	000000006	68 00 6A 7E 7E 6B	000000006 20 24	02 80 03 AA 02 8F	FB DD FB E 1 9 A FB	0025B		PUSHL CALLS PUSHL CALLS PUSHL CALLS BBC MOVZBL MOVZBL CALLS TSTL	#21 #2 #AÉD #1 #3 AED AED	SCR\$SET_CURSOR \$ DUPLICATE LIB\$SIGNAL AED_L_FLAGS. 26\$ B_COLOMN, -(SP) B_LINE(SP) SCR\$SET_CURSOR D\$_DUPLICATE&7> #3, AED_L_WORSTERR. # <aed\$_duplicate&7></aed\$_duplicate&7>	
00000000	8F	14	AA		03	00000000*	14	13 ED	nnzn	265:	TSTL BEQL CMPZV	# <ae 27\$ #0</ae 	D\$_DUPLICATE&7> #3, AED_L_WORSTERR, # <aed\$_duplicate&7></aed\$_duplicate&7>	
			7E	14 40 04	AA AE	00000000G 04	00 8F 07 AF	D0 C1 9A	0027F 00289 0028B 00293 00298	278:	BGEQ MOVL ADDL3 MOVZBL PUSHAB CALLS	MAED:	\$ DUPLICATE, AED_L_WORSTERR AED_L_FIRSTLINE, =(SP) ACE_SIZE, 4(SP) LIBSFREE_VM \$_DUPLICATE, RO	1459
				000000006	00 50	000000006	AE 02 8F	FB 00	0029F		CALLS MOVL RET	#AÉD	LIBSFREE_VM S_DUPLICATE, RO	1460
					56		66	04	34200	28\$:	RET MOVL		RENT_LINE), CURRENT_LINE	1462

AED\$SUBR V04-000									1	C 13 5-Sep-1 4-Sep-1	984 23:59 984 11:52	:16 VAX-11 Bliss-32 V4.0-742 Page :32 [ACLEDT.SRC]AEDSUBR.B32;1	(9)
					50	40 00	F62 AA AO 12	31	002B1 002B4 002B8	298:		21\$ AED_L_FIRSTLINE, RO	1447
				04	AE	0C 0C 04	AO BO AE O2	9F	002BD 002CQ		PUSHAB		1469
			7E	00000000G 40 04	00 AA AE	04	02 02 02 02	FB C1	002C8 002CF	30\$:	CALLS ADDL3	#2, LIB\$FREE_VM #12, AED_L_FIRSTLINE, -(SP) NEW_ACE_SIZE, 4(SP) 4(SP) #2 LIB\$GET_VM	1473
				00000000G	00 56	04	AE OS SO	9F FB DO	002DB 002DB 002E2		BRW MOVL TSTL BEQL PUSHAB MOVZBL PUSHAB CALLS MOVZBL PUSHAB CALLS MOVL BLBC MOVZBL	4(SP) #2, LIB\$GET_VM RO, VM_STATUS	
51			00		0E 51 50 6E	40	56 57 AA 00	9A 00 2C	002E5 002E8 002EB		BLBC MOVZBL MOVL MOVC5	#2, LIB\$GET VM RO, VM STATUS VM STATUS, 31\$ NEQ_ACE_SIZE, R1 AED_L_FIRSTLINE, RO #0, (SP), #0, R1, a12(R0)	
,			12		59 48 6A	OC	B0 56 59	D0 E8	002F4 002F6 002F9	31\$:		VM_STATUS, LOCAL_STATUS LOCAL_STATUS, 36\$ #3, AED_L_FLAGS, 32\$	1474
				000000006	00		01 15 02	DDDB	00300 00302 00304		MOVL BLBS BBC PUSHL CALLS PUSHL CALLS PUSHL CALLS BBC MOVZBL CALLS BBC MOVZBL CALLS BEQL MOVZBL CMPZV BGEQ MOVL MOVL RET	#21 #2. SCR\$ERASE_PAGE	
					6B		15	DD FB DD	00304 0030B 0030D 0030F 00312	32\$:	PUSHL	#21 #2. SCR\$SET_CURSOR LOCAL_STATUS #1. LIB\$SIGNAL	
			0B	0000000G	00 6A 7E	20 24	01 03 AA	FB F1	00314 0031B		CALLS BBC MOVZBL	#1, LIB\$SIGNAL #3, AED_L FLAGS, 33\$ AED_B_COLOMN, -(SP)	
					6B 07	24	AA 02 59	9A FB 93	0031F 00323 00327 0032A 0032D	33\$:	CALLS	#3, AED_L FLAGS, 33\$ AED_B_COLOMN, -(SP) AED_B_LINE, -(SP) #2, SCR\$SET_CURSOR LOCAL_STATUS, #7 35\$	
50 50		14	59 AA	3	03		00	EF ED	0032F 00334		EXTZV	#0. #3. LOCAL_STATUS, RO #0, #3, AED_L_WORSTERR, RO	
				14	AA 50		00 04 59 59	000	0033C 0034Q	34\$: 35\$:	MOVL	LOCAL_STATUS, AED_L_WORSTERR LOCAL_STATUS, RO	1478
				•	51 50	40	57 AA 51 01	9A DO	00344 00347	36\$:	MOVZBL MOVL MOVC3	NEW_ACE_SIZE, R1 AED_L_FIRSTLINE, R0 R1, NEW_ACE, @12(R0) #1, R0	1480
		00	B0	30	AE 50		01	00 28 00 04	0034B 00351 00354	37\$:	MOVES MOVE RET	#1, RO	1482 1484
; Routine Size	: 853	byt	es,	Routine	Base:	\$CODE\$	+ 0	984					

```
AED$SUBR
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 LACLEDT.SRCJAEDSUBR.B32;1
                                                                                                                                                                                                           Page 43 (10)
  10445678901055567890106657890107756789010886789010890
                          GLOBAL ROUTINE AED_SET_CURSOR (LINE, COLUMN) =
                                          FUNCTIONAL DESCRIPTION:
                                                    This routine sets the desired cursor position. As a side effect, it remembers the last position set. This is to allow screen refresh to correctly set the cursor position after repainting the screen.
                                          CALLING SEQUENCE:
AED_SET_CURSOR (ARG1, ARG2)
                                          INPUT PARAMETERS:
ARG1: line to which the cursor is set
ARG2: column to which the cursor is set
                                          IMPLICIT INPUTS:
                                                    none
                                          OUTPUT PARAMETERS:
                                                    none
                                         IMPLICIT OUTPUTS:

AED_B_SAVE_COL: saved column position
AED_B_SAVE_LIN: saves line position
                                          ROUTINE VALUE:
                                          SIDE EFFECTS:
                                                    none
                                       BEGIN
                                       ! Remember the position being set.
                                       AED_B_SAVE_LIN = .LINE;
AED_B_SAVE_COL = .COLUMN;
                                      ! Now, set the cursor.
                                       SCR$SET_CURSOR (.LINE, .COLUMN);
                                       RETURN 1:
                                       END:
                                                                                                                  ! End of routine AED_SET_CURSOR
                                                                                                                                      AED_SET_CURSOR, Save nothing LINE, AED_B_SAVE_LIN COLUMN, AED_B_SAVE_COL
                                                                                                                         .ENTRY
                                                     0000' CF
                                                                                                                         MOVB
```

AE V

AED\$SUBR V04-000 VAX-11 Bliss-32 V4.0-742 CACLEDT.SRCJAEDSUBR.B32;1 MOVQ CALLS MOVL RET M2. SCR\$SET_CURSOR 0000000G : Routine Size: 29 bytes, Routine Base: \$CODE\$ + OCD9 : 1091 : 1092 : 1093 PSECT SUMMARY Name Bytes Attributes SCODES RD , NOEXE, NOSHR, LCL, RD , EXE, NOSHR, LCL, NOVEC, WRT, OVR, NOPIC, ALIGN(0) CON, NOPIC, ALIGN(2) REL, Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Time Mapped \$255\$DUA28:[SYSLIB]LIB.L32:1 \$255\$DUA28:[SYSLIB]TPAMAC.L32:1 18619 32 1000 00:01.8 COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: AEDSUBR/OBJ=OBJ\$: AEDSUBR MSRC\$: AEDSUBR/UPDATE=(ENH\$: AEDSUBR)

Size: 3318 code + 1320 data bytes Run Time: 00:50.5 Elapsed Time: 02:27.8

Run Time: 00:50.5 Elapsed Time: 02:27.8 Lines/CPU Min: 1824 Lexemes/CPU-Min: 19712 Memory Used: 319 pages Compilation Complete *****************

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